

\$ * * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:04:06 ON 07 JUN 2004

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 15:04:18 ON 07 JUN 2004
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s zwf or (g6p or glc6p or glucose-6-phosphate) (w) (dh or dehydrogenase#) or g6pdh
FILE 'MEDLINE'

	77	ZWF
	432	G6P
	42	GLC6P
	255022	GLUCOSE
	1577538	6
	130881	PHOSPHATE
	13828	GLUCOSE-6-PHOSPHATE
		(GLUCOSE (W) 6 (W) PHOSPHATE)
	25928	DH
	130027	DEHYDROGENASE#
	7954	(G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
	523	G6PDH
L1	8098	ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'SCISEARCH'

	64	ZWF
	289	G6P
	61	GLC6P
	178856	GLUCOSE
	1384221	6
	136768	PHOSPHATE
	7563	GLUCOSE-6-PHOSPHATE
		(GLUCOSE (W) 6 (W) PHOSPHATE)
	3957	DH
	79746	DEHYDROGENASE#
	5178	(G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
	490	G6PDH
L2	5314	ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'LIFESCI'

	55	ZWF
	111	G6P
	12	GLC6P
	40890	"GLUCOSE"
	199733	"6"
	37937	"PHOSPHATE"
	2677	GLUCOSE-6-PHOSPHATE
		("GLUCOSE" (W) "6" (W) "PHOSPHATE")
	1025	DH
	25424	DEHYDROGENASE#
	1636	(G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
	190	G6PDH
L3	1703	ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'BIOTECHDS'

98 ZWF
 26 G6P
 1 GLC6P
 29778 GLUCOSE
 93089 6
 17208 PHOSPHATE
 648 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 211 DH
 7784 DEHYDROGENASE#
 435 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 41 G6PDH
 L4 455 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'BIOSIS'

85 ZWF
 514 G6P
 71 GLC6P
 265517 GLUCOSE
 1498872 6
 193549 PHOSPHATE
 18698 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 3202 DH
 131029 DEHYDROGENASE#
 13794 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 773 G6PDH
 L5 13932 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'EMBASE'

67 ZWF
 397 G6P
 38 GLC6P
 210509 "GLUCOSE"
 894345 "6"
 160904 "PHOSPHATE"
 13211 GLUCOSE-6-PHOSPHATE
 ("GLUCOSE" (W) "6" (W) "PHOSPHATE")
 2116 DH
 89735 DEHYDROGENASE#
 8864 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 474 G6PDH
 L6 8943 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'HCAPLUS'

223 ZWF
 591 G6P
 67 GLC6P
 367489 GLUCOSE
 3421163 6
 502118 PHOSPHATE
 26435 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 7244 DH
 151910 DEHYDROGENASE#
 16503 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 827 G6PDH
 L7 16614 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'NTIS'

0 ZWF
 0 G6P
 0 GLC6P
 2860 GLUCOSE
 129372 6
 6331 PHOSPHATE
 156 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 362 DH
 1072 DEHYDROGENASE#
 119 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 2 G6PDH
 L8 119 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'ESBIOBASE'

45 ZWF
 147 G6P
 40 GLC6P
 58239 GLUCOSE
 433882 6
 39790 PHOSPHATE
 2453 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 1100 DH
 24702 DEHYDROGENASE#
 1382 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 249 G6PDH
 L9 1437 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'BIOTECHNO'

59 ZWF
 124 G6P
 37 GLC6P
 43289 GLUCOSE
 285524 6
 51707 PHOSPHATE
 3288 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 849 DH
 29338 DEHYDROGENASE#
 1800 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 148 G6PDH
 L10 1835 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

FILE 'WPIDS'

94 ZWF
 12 G6P
 0 GLC6P
 30168 GLUCOSE
 2664426 6
 86069 PHOSPHATE
 581 GLUCOSE-6-PHOSPHATE
 (GLUCOSE (W) 6 (W) PHOSPHATE)
 1091 DH
 4645 DEHYDROGENASE#
 392 (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#)
 45 G6PDH
 L11 423 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGENASE#) OR G6PDH

TOTAL FOR ALL FILES

L12 58873 ZWF OR (G6P OR GLC6P OR GLUCOSE-6-PHOSPHATE) (W) (DH OR DEHYDROGEN ASE#) OR G6PDH

=> s l12 and corynebact?

FILE 'MEDLINE'

8917 CORYNEBACT?

L13 9 L1 AND CORYNEBACT?

FILE 'SCISEARCH'

5910 CORYNEBACT?

L14 11 L2 AND CORYNEBACT?

FILE 'LIFESCI'

3876 CORYNEBACT?

L15 6 L3 AND CORYNEBACT?

FILE 'BIOTECHDS'

2723 CORYNEBACT?

L16 91 L4 AND CORYNEBACT?

FILE 'BIOSIS'

11070 CORYNEBACT?

L17 16 L5 AND CORYNEBACT?

FILE 'EMBASE'

9152 CORYNEBACT?

L18 9 L6 AND CORYNEBACT?

FILE 'HCAPLUS'

11166 CORYNEBACT?

L19 123 L7 AND CORYNEBACT?

FILE 'NTIS'

182 CORYNEBACT?

L20 0 L8 AND CORYNEBACT?

FILE 'ESBIOBASE'

1313 CORYNEBACT?

L21 7 L9 AND CORYNEBACT?

FILE 'BIOTECHNO'

2403 CORYNEBACT?

L22 7 L10 AND CORYNEBACT?

FILE 'WPIDS'

2776 CORYNEBACT?

L23 87 L11 AND CORYNEBACT?

TOTAL FOR ALL FILES

L24 366 L12 AND CORYNEBACT?

=> s (amino acid or lysine or threonine or tryptophan or lys or thr or trp) (5a) (biosynthes? or synthes? or prepar?)

FILE 'MEDLINE'

557560 AMINO

1263833 ACID

415553 AMINO ACID

(AMINO(W) ACID)

40501 LYSINE

34164 THREONINE

33559 TRYPTOPHAN

16532 LYS

11806 THR

12487 TRP
538678 BIOSYNTHES?
455555 SYNTHES?
426653 PREPAR?
L25 6933 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'SCISEARCH'

344283 AMINO
985561 ACID
183571 AMINO ACID
(AMINO(W)ACID)
27088 LYSINE
17154 THREONINE
24555 TRYPTOPHAN
14201 LYS
15221 THR
10777 TRP
84759 BIOSYNTHES?
793775 SYNTHES?
509161 PREPAR?
L26 8064 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'LIFESCI'

154684 "AMINO"
273037 "ACID"
107308 AMINO ACID
("AMINO" (W) "ACID")
10011 LYSINE
7611 THREONINE
7615 TRYPTOPHAN
7188 LYS
5127 THR
5057 TRP
51120 BIOSYNTHES?
132158 SYNTHES?
97187 PREPAR?
L27 2979 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'BIOTECHDS'

54152 AMINO
113638 ACID
38397 AMINO ACID
(AMINO(W)ACID)
3483 LYSINE
1911 THREONINE
2388 TRYPTOPHAN
2978 LYS
2440 THR
2276 TRP
8859 BIOSYNTHES?
28843 SYNTHES?
75369 PREPAR?
L28 2059 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'BIOSIS'

487739 AMINO
1158486 ACID
282443 AMINO ACID
(AMINO(W)ACID)
46598 LYSINE

24157 THREONINE
 37503 TRYPTOPHAN
 17098 LYS
 12160 THR
 12908 TRP
 96059 BIOSYNTHES?
 611201 SYNTHES?
 434506 PREPAR?
 L29 11578 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
 OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'EMBASE'

376525 "AMINO"
 1225144 "ACID"
 255669 AMINO ACID
 ("AMINO" (W) "ACID")
 32470 LYSINE
 19573 THREONINE
 27347 TRYPTOPHAN
 13808 LYS
 10228 THR
 9568 TRP
 58095 BIOSYNTHES?
 555257 SYNTHES?
 357403 PREPAR?
 L30 8333 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
 OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'HCAPLUS'

980266 AMINO
 3826002 ACID
 481125 AMINO ACID
 (AMINO(W)ACID)
 94100 LYSINE
 50122 THREONINE
 67468 TRYPTOPHAN
 26092 LYS
 17070 THR
 18816 TRP
 123459 BIOSYNTHES?
 1371706 SYNTHES?
 1472225 PREPAR?
 110040 PREP
 1865804 PREPD
 96473 PREPG
 2476975 PREPN
 4228697 PREPAR?
 (PREPAR? OR PREP OR PREPD OR PREPG OR PREPN)
 L31 36974 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
 OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'NTIS'

6831 AMINO
 43272 ACID
 2396 AMINO ACID
 (AMINO(W)ACID)
 365 LYSINE
 151 THREONINE
 407 TRYPTOPHAN
 127 LYS
 154 THR
 153 TRP
 3624 BIOSYNTHES?
 41589 SYNTHES?

105993 PREPAR?
L32 194 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'ESBIOBASE'

152913 AMINO
283483 ACID
85896 AMINO ACID
(AMINO(W)ACID)
9692 LYSINE
9039 THREONINE
7213 TRYPTOPHAN
7611 LYS
6326 THR
5427 TRP
26571 BIOSYNTHES?
165670 SYNTHES?
85041 PREPAR?
L33 2555 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'BIOTECHNO'

204625 AMINO
349810 ACID
154660 AMINO ACID
(AMINO(W)ACID)
13846 LYSINE
11609 THREONINE
7974 TRYPTOPHAN
9434 LYS
7178 THR
5672 TRP
29435 BIOSYNTHES?
170699 SYNTHES?
86115 PREPAR?
L34 3495 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

FILE 'WPIDS'

216369 AMINO
847927 ACID
57444 AMINO ACID
(AMINO(W)ACID)
8841 LYSINE
3634 THREONINE
3308 TRYPTOPHAN
7617 LYS
7184 THR
4476 TRP
4348 BIOSYNTHES?
115940 SYNTHES?
691523 PREPAR?
343600 PREPD
9351 PREPG
289152 PREPN
939515 PREPAR?
(PREPAR? OR PREPD OR PREPG OR PREPN)
L35 4251 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

TOTAL FOR ALL FILES

L36 87415 (AMINO ACID OR LYSINE OR THREONINE OR TRYPTOPHAN OR LYS OR THR
OR TRP) (5A) (BIOSYNTHES? OR SYNTHES? OR PREPAR?)

=> s 112 and 136
FILE 'MEDLINE'
L37 9 L1 AND L25

FILE 'SCISEARCH'
L38 9 L2 AND L26

FILE 'LIFESCI'
L39 4 L3 AND L27

FILE 'BIOTECHDS'
L40 62 L4 AND L28

FILE 'BIOSIS'
L41 19 L5 AND L29

FILE 'EMBASE'
L42 11 L6 AND L30

FILE 'HCAPLUS'
L43 132 L7 AND L31

FILE 'NTIS'
L44 0 L8 AND L32

FILE 'ESBIOBASE'
L45 4 L9 AND L33

FILE 'BIOTECHNO'
L46 8 L10 AND L34

FILE 'WPIDS'
L47 54 L11 AND L35

TOTAL FOR ALL FILES
L48 312 L12 AND L36

=> s (124 or 148) not 2001-2004/py
FILE 'MEDLINE'
1838969 2001-2004/PY
L49 10 (L13 OR L37) NOT 2001-2004/PY

FILE 'SCISEARCH'
3404745 2001-2004/PY
L50 7 (L14 OR L38) NOT 2001-2004/PY

FILE 'LIFESCI'
328976 2001-2004/PY
L51 4 (L15 OR L39) NOT 2001-2004/PY

FILE 'BIOTECHDS'
71824 2001-2004/PY
L52 0 (L16 OR L40) NOT 2001-2004/PY

FILE 'BIOSIS'
1797825 2001-2004/PY
L53 27 (L17 OR L41) NOT 2001-2004/PY

FILE 'EMBASE'
1563752 2001-2004/PY
L54 12 (L18 OR L42) NOT 2001-2004/PY

FILE 'HCAPLUS'
3446818 2001-2004/PY

L55 41 (L19 OR L43) NOT 2001-2004/PY

FILE 'NTIS'

49156 2001-2004/PY

L56 0 (L20 OR L44) NOT 2001-2004/PY

FILE 'ESBIOBASE'

976065 2001-2004/PY

L57 4 (L21 OR L45) NOT 2001-2004/PY

FILE 'BIOTECHNO'

368875 2001-2004/PY

L58 6 (L22 OR L46) NOT 2001-2004/PY

FILE 'WPIDS'

3239871 2001-2004/PY

L59 0 (L23 OR L47) NOT 2001-2004/PY

TOTAL FOR ALL FILES

L60 111 (L24 OR L48) NOT 2001-2004/PY

=> dup rem l60

PROCESSING COMPLETED FOR L60

L61 64 DUP REM L60 (47 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Investigation of the pentose phosphate pathway regulation of
Corynebacterium glutamicum

SO Berichte des Forschungszentrums Juelich (2000), Juel-3743, i-vii, 1-97
CODEN: FJBEE5; ISSN: 0366-0885

AU Mortiz, Bernd Stefan

AN 2000:543208 HCAPLUS

DN 133:174441

L61 ANSWER 2 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Functional analysis of gapped microbial genomes: amino acid metabolism of
Thiobacillus ferrooxidans

SO Proceedings of the National Academy of Sciences of the United States of
America (2000), 97(7), 3509-3514
CODEN: PNASA6; ISSN: 0027-8424

AU Selkov, Evgeni; Overbeek, Ross; Kogan, Yakov; Chu, Lien; Vonstein,
Veronika; Holmes, David; Silver, Simon; Haselkorn, Robert; Fonstein,
Michael

AN 2000:231967 HCAPLUS

DN 133:160415

L61 ANSWER 3 OF 64 MEDLINE on STN DUPLICATE 1

TI Kinetic properties of the glucose-6-phosphate and 6-phosphogluconate
dehydrogenases from **Corynebacterium** glutamicum and their
application for predicting pentose phosphate pathway flux in vivo.

SO European journal of biochemistry / FEBS, (2000 Jun) 267 (12) 3442-52.
Journal code: 0107600. ISSN: 0014-2956.

AU Moritz B; Striegel K; De Graaf A A; Sahm H

AN 2000395039 MEDLINE

L61 ANSWER 4 OF 64 MEDLINE on STN DUPLICATE 2

TI Pathway analysis and metabolic engineering in **Corynebacterium**
glutamicum.

SO Biological chemistry, (2000 Sep-Oct) 381 (9-10) 899-910. Ref: 65
Journal code: 9700112. ISSN: 1431-6730.

AU Sahm H; Eggeling L; de Graaf A A

AN 2001354312 MEDLINE

L61 ANSWER 5 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Pathway analysis and metabolic engineering in **Corynebacterium**
 glutamicum.
 SO Mededelingen Faculteit Landbouwkundige en Toegepaste Biologische
 Wetenschappen Universiteit Gent, (2000) Vol. 65, No. 3A, pp. 221-229.
 print.
 AU Sahm, H. [Reprint author]; Eggeling, L. [Reprint author]; de Graaf, A. A.
 [Reprint author]
 AN 2001:96331 BIOSIS

L61 ANSWER 6 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Enzymic synthesis of [7-14C, 7-3H]- and [1-13C]sedoheptulose 7-phosphate
 and [1-13C]ido-heptulose 7-phosphate
 SO Journal of Molecular Catalysis B: Enzymatic (1999), 6(3), 369-377
 CODEN: JMCEF8; ISSN: 1381-1177
 AU Lee, Sungsook; Kirschning, Andreas; Muller, Michael; Way, Chris; Floss,
 Heinz G.
 AN 1999:77999 HCAPLUS
 DN 130:252580

L61 ANSWER 7 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Ammonium metabolism stimulation of glucose-6P dehydrogenase and
 phosphoenolpyruvate carboxylase in young barley roots.
 SO Journal of Plant Physiology, (Aug., 1998) Vol. 153, No. 1-2, pp. 61-66.
 print.
 CODEN: JPPHEY. ISSN: 0176-1617.
 AU Esposito, Sergio; Carillo, Petronia; Carfagna, Simona
 AN 1998:486359 BIOSIS

L61 ANSWER 8 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Determination of the carbon flux in the central metabolism of
Corynebacterium glutamicum by 13C-isotope analysis
 SO Berichte des Forschungszentrums Juelich (1997), Juel-3459, 1-111 pp.
 CODEN: FJBEE5; ISSN: 0366-0885
 AU Marx, Achim
 AN 1998:184754 HCAPLUS
 DN 128:292608

L61 ANSWER 9 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Cloning of gene **zwf** encoding **glucose-6-**
phosphate dehydrogenase from coryneform bacteria
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 IN Hatakeyama, Kazuhisa; Kuwabara, Koichiro; Kobayashi, Miki; Yukawa, Hideaki
 AN 1997:586975 HCAPLUS
 DN 127:217036

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09224661	A2	19970902	JP 1996-36345	19960223

L61 ANSWER 10 OF 64 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
 on STN DUPLICATE 3
 TI Metabolism of sulfur amino acids in *Saccharomyces cerevisiae*.
 SO Microbiology and Molecular Biology Reviews, (1997) 61/4 (503-532).
 Refs: 271
 ISSN: 1092-2172 CODEN: MMBRF7
 AU Thomas D.; Surdin-Kerjan Y.
 AN 1998002212 EMBASE

L61 ANSWER 11 OF 64 MEDLINE on STN DUPLICATE 4
 TI Presence of F420-dependent **glucose-6-phosphate**
dehydrogenase in *Mycobacterium* and *Nocardia* species, but absence
 from *Streptomyces* and **Corynebacterium** species and methanogenic

Archaea.
SO FEMS microbiology letters, (1997 Jan 1) 146 (1) 129-34.
Journal code: 7705721. ISSN: 0378-1097.
AU Purwantini E; Gillis T P; Daniels L
AN 97151735 MEDLINE

L61 ANSWER 12 OF 64 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 5
TI Involvement of the oxidative pentose phosphate pathway in thiamine
biosynthesis in Salmonella typhimurium.
SO Journal of Bacteriology, (1996) 178/5 (1476-1479).
ISSN: 0021-9193 CODEN: JOBAAY
AU Enos-Berlage J.L.; Downs D.M.
AN 96076613 EMBASE

L61 ANSWER 13 OF 64 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
TI An important role for pentose cycle in the synthesis of citrulline and
proline from glutamine in porcine enterocytes.
SO Archives of Biochemistry and Biophysics, (1996) 336/2 (224-230).
Refs: 39
ISSN: 0003-9861 CODEN: ABBIA4
AU Wu G.
AN 97005470 EMBASE

L61 ANSWER 14 OF 64 MEDLINE on STN DUPLICATE 6
TI Chemical characterization of a protein-4-hydroxy-2-nonenal cross-link:
immunochemical detection in mitochondria exposed to oxidative stress.
SO Archives of biochemistry and biophysics, (1996 Apr 1) 328 (1) 158-64.
Journal code: 0372430. ISSN: 0003-9861.
AU Cohn J A; Tsai L; Friguet B; Szweda L I
AN 96195776 MEDLINE

L61 ANSWER 15 OF 64 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 7
TI REGULATION OF CARBOHYDRATE-METABOLISM IN FISH .25. METABOLIC RESPONSE TO
ACCLIMATION TEMPERATURE IN CARP
SO FISHERIES SCIENCE, (JUN 1995) Vol. 61, No. 3, pp. 512-516.
ISSN: 0919-9268.
AU SHIKATA T (Reprint); IWANAGA S; SHIMENO S
AN 95:514297 SCISEARCH

L61 ANSWER 16 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI The enzymology of dicarboxylic acid formation by **Corynebacterium**
sp. strain 7E1C grown on n-alkanes.
SO Journal of General Microbiology, (1993) Vol. 139, No. 6, pp. 1337-1344.
CODEN: JGMIAN. ISSN: 0022-1287.
AU Broadway, Neil M.; Dickinson, F. Mark; Ratledge, Colin [Reprint author]
AN 1993:393393 BIOSIS

L61 ANSWER 17 OF 64 MEDLINE on STN DUPLICATE 8
TI **Lysine biosynthesis** in selected pathogenic fungi:
characterization of lysine auxotrophs and the cloned LYS1 gene of Candida
albicans.
SO Journal of bacteriology, (1992 Nov) 174 (22) 7379-84.
Journal code: 2985120R. ISSN: 0021-9193.
AU Garrad R C; Bhattacharjee J K
AN 93054354 MEDLINE

L61 ANSWER 18 OF 64 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 9
TI ACTIVATION OF RESPIRATION TO SUPPORT DARK NO3- AND NH4+ ASSIMILATION IN
THE GREEN-ALGA SELENASTRUM-MINUTUM
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L61 ANSWER 8 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN
AB All C fluxes of the central metabolism of *C. glutamicum* were quantified and
the role and coordination of single metabolic pathways were studied under
different metabolic situations. A method based on ¹³C-data was

established to quantify all metabolite fluxes of the central metabolism. Strong sensitivities were indicated between metabolic fluxes and ^{13}C data, thus allowing the determination of metabolite flux. When the ^{13}C -content of the position oxalacetate C-4 was varied by the factor 2 it could be shown if anaplerotic production of C4-bodies was via the carboxylation of C3-bodies or via the glyoxalate cycle. A hyperbolic relationship was shown for the bi-directional turnover of transketolase and the ^{13}C -content of the position pentose-5-phosphate C-1 and for the bi-directional metabolite flux between C3-bodies of glycolysis and C4-bodies of the tricarboxylate (TCA) cycle and ^{13}C -enrichment of the position oxalacetate C-2. The NADPH balance showed that, depending on the conditions, more NADPH was produced than necessary for the synthesis of biomass and products. The NADPH excess was 16-67% in relation to the glucose uptake rate. Depending on the metabolic situation, the C4-body-decarboxylation was 10-132% and opposed to the carboxylation of C3-bodies for the anaplerotic supply of the TCA cycle. C4-body-decarboxylation and NADPH-excess as adaptations to high production of Lys were minimal, with a yield coefficient of 0.32 molLys/molglucose-1. The contribution of malate enzyme to a total NADPH production of 211% was small. The pentose phosphate pathway (PPP) and the TCA cycle produced 3/4 and 1/4, resp., of the total NADPH. Overexpression of glutamate dehydrogenase in a mutant of strain MH20-22B resulted in low TCA cycle flux and a high metabolite flux through the oxidative PPP. A high TCA cycle flux was detected during glutamate production using strain LE4. The PPP flux was low in this strain. In a mutant of strain MH20-22B producing Lys and using NADH for **synthesis** of glutamate, TCA cycle flux was 79% and that of PPP was 26%. The low PPP was due to low NADPH consumption and high NADPH production from isocitrate dehydrogenase of the TCA cycle. A strain ATCC 13032 isocitrate dehydrogenase mutant with a blocked TCA cycle showed a PPP flux of 62%. This mutant showed a glyoxalate cycle active in vivo when metabolizing glucose. This metabolite flux was 53%. A flux of 16% produced anaplerotically C4-bodies. At a flux of 37% the glyoxalate cycle released CO_2 by C4-body decarboxylation and pyruvate dehydrogenase.

L61 ANSWER 9 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN

AB Gene **zwf** encoding a novel **glucose-6-phosphate dehydrogenase** is isolated from *Brevibacterium flavum* strain MJ-233. The gene encoding the 484-amino-acid enzyme.

L61 ANSWER 16 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AB Cultures of the Gram-positive bacterium *Corynebacterium* sp. strain 7E1C contained up to 300 mg dodecanedioic acid l-1 after growth on dodecane. Small amounts of tetradecanedioic acid (17 to 45 mg l-1) were produced during growth on tetradecane or methyl tetradecanoate. No dicarboxylic acids were detected after growth on hexadecane, hexadecanoic acid or 16-hydroxyhexadecanoic acid. Studies on the rates of degradation of exogenous dicarboxylic acids showed that this is not a significant factor influencing the accumulation of dodecanedioic and tetradecanedioic acids. The activities and substrate specificities of a number of enzyme activities involved in dicarboxylic acid metabolism were investigated. The specificities of the long-chain acyl-CoA synthetase and thioesterase, alcohol dehydrogenases and beta-oxidation are consistent with the accumulation of dodecanedioic acid from dodecane and the lack of production of hexadecanedioic acid from hexadecane. The omega-hydroxy fatty acid may occupy a pivotal position in determining whether significant production of dicarboxylic acid occurs with this organism.

L61 ANSWER 17 OF 64 MEDLINE on STN DUPLICATE 8

AB The alpha-amino adipate pathway for the **biosynthesis** of **lysine** is present only in fungi and euglena. Until now, this unique metabolic pathway has never been investigated in the opportunistic fungal pathogens *Candida albicans*, *Cryptococcus neoformans*, and *Aspergillus fumigatus*. Five of the eight enzymes (homocitrate synthase,

homoisocitrate dehydrogenase, alpha-aminoadipate reductase, saccharopine reductase, and saccharopine dehydrogenase) of the alpha-aminoadipate pathway and **glucose-6-phosphate dehydrogenase**, a glycolytic enzyme used as a control, were demonstrated in wild-type cells of these organisms. All enzymes were present in *Saccharomyces cerevisiae* and the pathogenic organisms except *C. neoformans* 32608 serotype C, which exhibited no saccharopine reductase activity. The levels of enzyme activity varied considerably from strain to strain. Variation among organisms was also observed for the control enzyme. Among the pathogens, *C. albicans* exhibited much higher homocitrate synthase, homoisocitrate dehydrogenase, and alpha-aminoadipate reductase activities. Seven lysine auxotrophs of *C. albicans* and one of *Candida tropicalis* were characterized biochemically to determine the biochemical blocks and gene-enzyme relationships. Growth responses to alpha-aminoadipate- and lysine-supplemented media, accumulation of alpha-aminoadipate semialdehyde, and the lack of enzyme activity revealed that five of the mutants (WA104, WA153, WC7-1-3, WD1-31-2, and A5155) were blocked at the alpha-aminoadipate reductase step, two (STN57 and WD1-3-6) were blocked at the saccharopine dehydrogenase step, and the *C. tropicalis* mutant (X-16) was blocked at the saccharopine reductase step. The cloned *LYS1* gene of *C. albicans* in the recombinant plasmid YpB1078 complemented saccharopine dehydrogenase (*lys1*) mutants of *S. cerevisiae* and *C. albicans*. The *Lys1+* transformed strains exhibited significant saccharopine dehydrogenase activity in comparison with untransformed mutants. The cloned *LYS1* gene has been localized on a 1.8-kb *HindIII* DNA insert of the recombinant plasmid YpB1041RG1. These results established the gene-enzyme relationship in the second half of the alpha-aminoadipate pathway. The presence of this unique pathway in the pathogenic fungi could be useful for their rapid detection and control.

L61 ANSWER 26 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 10

AB NADP-Specific **G6P dehydrogenase** was partially purified from *Brevibacterium flavum*. Its activity, with an optimum pH of 7.5, was stabilized by KCl or Mg²⁺ and inhibited by diamide, a sulfhydryl reagent. It was also inhibited by oxaloacetate, FBP, PRPP, acetyl-CoA, Ru5P, xylulose 5-phosphate and NADPH. Among them, oxaloacetate showed the strongest inhibition. The concentration of oxaloacetate giving 50% inhibition was 0.09 mM. The inhibitions by oxaloacetate, FBP, PRPP, and NADPH were non-competitive, mixed, and competitive for both the substrates, respectively. Oxaloacetate in combination with FBP, PRPP, or Ru5P inhibited the activity cumulatively. The sensitivities to the oxaloacetate, FBP, and PRPP inhibitions were lost on ammonium sulfate treatment, whereas that to NADPH inhibition was not affected at all. The inhibition by oxaloacetate was specific to glutamate-producing bacteria belonging to the genera, *Brevibacterium* and *Corynebacterium*, in contrast to those by FBP and PRPP, which were found in almost all bacteria tested. **G6P dehydrogenase** in *B. flavum* was induced by glucose when it was cultured on acetate, succinate, or glutamate.

L61 ANSWER 40 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN

AB Purified **glucose 6-phosphate dehydrogenase** from *Zymomonas mobilis* was examined with respect to inhibition by phosphoenolpyruvate, ADP, and ATP. Its mol. weight was 260,000 and the kinetics of substrate conversion indicated a random bi bi mechanism. This enzyme and the dehydrogenases from *Z. anaerobia*, *Azotobacter chroococcum*, *A. vinelandii* and *Corynebacterium autotrophicum* were allosterically inhibited by phosphoenolpyruvate, whereas those from several coryneform bacteria and from *Escherichia coli* or *Pseudomonas fluorescens* were not.

L61 ANSWER 51 OF 64 MEDLINE on STN DUPLICATE 17

L61 ANSWER 53 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

L61 ANSWER 55 OF 64 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

L61 ANSWER 56 OF 64 HCAPLUS COPYRIGHT 2004 ACS on STN

AB From the standpoint of enzymic action, the mechanism of L-glutamic acid formation by mixed cultures of *Escherichia coli* 3691 E and ***Corynebacterium*** species 1633 A was studied. In pure cultures, several kinds of enzymes from glycolytic pathways and the tricarboxylic acid cycle were highly active in *E. coli* cells and hardly observed in ***Corynebacterium*** cells. But urease activity of *E. coli* cells was markedly strong compared with that of ***Corynebacterium*** cells. In mixed culture cells, the oxidation activity of acetate and the level of isocitrate dehydrogenase were markedly higher than those in pure culture cells. The presence of **glucose-6-phosphate dehydrogenase** and phosphoglucose isomerase suggests that glycolysis in this mixed culture follows both the Embden-Meyerhof pathway and the hexose monophosphate pathway.

=> s poxb or pox(w)b or pyruvate oxidase#

FILE 'MEDLINE'

19 POXB

1656 POX

577812 B

1 POX(W)B

24432 PYRUVATE

65649 OXIDASE#

265 PYRUVATE OXIDASE#

(PYRUVATE(W)OXIDASE#)

L62 269 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'SCISEARCH'

19 POXB

1600 POX

1137330 B

1 POX(W)B

19428 PYRUVATE

62277 OXIDASE#

232 PYRUVATE OXIDASE#

(PYRUVATE(W)OXIDASE#)

L63 241 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'LIFESCI'

13 POXB

744 POX

192842 B

1 POX(W)B

6026 "PYRUVATE"

16492 OXIDASE#

81 PYRUVATE OXIDASE#

("PYRUVATE"(W)OXIDASE#)

L64 86 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'BIOTECHDS'

126 POXB

1268 POX

50141 B

1 POX(W)B

1952 PYRUVATE

6051 OXIDASE#

207 PYRUVATE OXIDASE#

(PYRUVATE(W)OXIDASE#)
L65 217 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'BIOSIS'

19 POXB
3529 POX
674582 B
10 POX(W)B
35927 PYRUVATE
83029 OXIDASE#
273 PYRUVATE OXIDASE#
(PYRUVATE(W)OXIDASE#)

L66 284 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'EMBASE'

16 POXB
983 POX
636555 B
2 POX(W)B
19992 "PYRUVATE"
57653 OXIDASE#
173 PYRUVATE OXIDASE#
("PYRUVATE"(W)OXIDASE#)

L67 180 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'HCAPLUS'

217 POXB
1778 POX
1430652 B
2 POX(W)B
48038 PYRUVATE
110029 OXIDASE#
810 PYRUVATE OXIDASE#
(PYRUVATE(W)OXIDASE#)

L68 840 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'NTIS'

0 POXB
120 POX
66418 B
0 POX(W)B
304 PYRUVATE
730 OXIDASE#
1 PYRUVATE OXIDASE#
(PYRUVATE(W)OXIDASE#)

L69 1 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'ESBIOBASE'

11 POXB
447 POX
289652 B
1 POX(W)B
6080 PYRUVATE
17908 OXIDASE#
59 PYRUVATE OXIDASE#
(PYRUVATE(W)OXIDASE#)

L70 65 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'BIOTECHNO'

14 POXB
378 POX
228519 B
0 POX(W)B
6527 PYRUVATE

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16788 OXIDASE#
107 PYRUVATE OXIDASE#
(PYRUVATE(W) OXIDASE#)
L71 112 POXB OR POX(W)B OR PYRUVATE OXIDASE#

FILE 'WPIDS'
144 POXB
731 POX
1124537 B
2 POX(W)B
1864 PYRUVATE
6144 OXIDASE#
207 PYRUVATE OXIDASE#
(PYRUVATE(W) OXIDASE#)
L72 218 POXB OR POX(W)B OR PYRUVATE OXIDASE#

TOTAL FOR ALL FILES
L73 2513 POXB OR POX(W) B OR PYRUVATE OXIDASE#

=> s l73 and corynebact?
FILE 'MEDLINE'
8917 CORYNEBACT?
L74 1 L62 AND CORYNEBACT?

FILE 'SCISEARCH'
5910 CORYNEBACT?
L75 1 L63 AND CORYNEBACT?

FILE 'LIFESCI'
3876 CORYNEBACT?
L76 1 L64 AND CORYNEBACT?

FILE 'BIOTECHDS'
2723 CORYNEBACT?
L77 97 L65 AND CORYNEBACT?

FILE 'BIOSIS'
11070 CORYNEBACT?
L78 1 L66 AND CORYNEBACT?

FILE 'EMBASE'
9152 CORYNEBACT?
L79 2 L67 AND CORYNEBACT?

FILE 'HCAPLUS'
11166 CORYNEBACT?
L80 123 L68 AND CORYNEBACT?

FILE 'NTIS'
182 CORYNEBACT?
L81 0 L69 AND CORYNEBACT?

FILE 'ESBIOBASE'
1313 CORYNEBACT?
L82 1 L70 AND CORYNEBACT?

FILE 'BIOTECHNO'
2403 CORYNEBACT?
L83 1 L71 AND CORYNEBACT?

FILE 'WPIDS'
2776 CORYNEBACT?
L84 101 L72 AND CORYNEBACT?

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TOTAL FOR ALL FILES
L85 329 L73 AND CORYNEBACT?

=> s 173 and 136
FILE 'MEDLINE'
L86 0 L62 AND L25

FILE 'SCISEARCH'
L87 1 L63 AND L26

FILE 'LIFESCI'
L88 0 L64 AND L27

FILE 'BIOTECHDS'
L89 87 L65 AND L28

FILE 'BIOSIS'
L90 1 L66 AND L29

FILE 'EMBASE'
L91 1 L67 AND L30

FILE 'HCAPLUS'
L92 159 L68 AND L31

FILE 'NTIS'
L93 0 L69 AND L32

FILE 'ESBIOBASE'
L94 0 L70 AND L33

FILE 'BIOTECHNO'
L95 1 L71 AND L34

FILE 'WPIDS'
L96 87 L72 AND L35

TOTAL FOR ALL FILES
L97 337 L73 AND L36

=> s (185 or 197) not 2001-2004/py
FILE 'MEDLINE'
1838969 2001-2004/PY
L98 0 (L74 OR L86) NOT 2001-2004/PY

FILE 'SCISEARCH'
3404745 2001-2004/PY
L99 1 (L75 OR L87) NOT 2001-2004/PY

FILE 'LIFESCI'
328976 2001-2004/PY
L100 0 (L76 OR L88) NOT 2001-2004/PY

FILE 'BIOTECHDS'
71824 2001-2004/PY
L101 1 (L77 OR L89) NOT 2001-2004/PY

FILE 'BIOSIS'
1797825 2001-2004/PY
L102 1 (L78 OR L90) NOT 2001-2004/PY

FILE 'EMBASE'
1563752 2001-2004/PY
L103 0 (L79 OR L91) NOT 2001-2004/PY

FILE 'HCAPLUS'
3446818 2001-2004/PY
L104 1 (L80 OR L92) NOT 2001-2004/PY

FILE 'NTIS'
49156 2001-2004/PY
L105 0 (L81 OR L93) NOT 2001-2004/PY

FILE 'ESBIOBASE'
976065 2001-2004/PY
L106 0 (L82 OR L94) NOT 2001-2004/PY

FILE 'BIOTECHNO'
368875 2001-2004/PY
L107 0 (L83 OR L95) NOT 2001-2004/PY

FILE 'WPIDS'
3239871 2001-2004/PY
L108 0 (L84 OR L96) NOT 2001-2004/PY

TOTAL FOR ALL FILES
L109 4 (L85 OR L97) NOT 2001-2004/PY

=> dup rem l109
PROCESSING COMPLETED FOR L109
L110 4 DUP REM L109 (0 DUPLICATES REMOVED)

=> d tot

L110 ANSWER 1 OF 4 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI A study on growth characteristics and nutrient consumption of
Lactobacillus plantarum in A-stat culture
SO ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR
MICROBIOLOGY, (MAY 1999) Vol. 75, No. 4, pp. 309-320.
Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA
DORDRECHT, NETHERLANDS.
ISSN: 0003-6072.
AU Kask S; Laht T M; Pall T; Paalme T (Reprint)
AN 1999:678871 SCISEARCH

L110 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI INTERACTION OF QUINONES WITH ACETOLACTATE SYNTHASE.
SO FASEB Journal, (1988) Vol. 2, No. 5, pp. ABSTRACT 4068.
Meeting Info.: 72ND ANNUAL MEETING OF THE FEDERATION OF AMERICAN SOCIETIES
FOR EXPERIMENTAL BIOLOGY, LAS VEGAS, NEVADA, USA, MAY 1-5, 1988. FASEB
(FED AM SOC EXP BIOL) J.
CODEN: FAJOEC. ISSN: 0892-6638.
AU CISKANIK L M [Reprint author]; VAN DYK D E; SCHLOSS J V
AN 1988:276669 BIOSIS

L110 ANSWER 3 OF 4 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI A glutamine-synthetase-glutamate-synthase system of
Corynebacterium glutamicum and Brevibacterium flavum and its
application;
glutamic acid production (conference abstract)
SO Eur.Congr.Biotechnol.; (1987) Vol.2, 23
AU Tochikura T
AN 1989-07060 BIOTECHDS

L110 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Phosphoketolase system of carbohydrate cleavage in saprophytic
mycobacteria
SO Doklady Akademii Nauk SSSR (1983), 272(2), 490-2 [Microbiol.]

CODEN: DANKAS; ISSN: 0002-3264
AU Golovlev, E. L.; Eroshina, N. V.; Baryshnikova, L. M.
AN 1984:3288 HCAPLUS
DN 100:3288

=> d ab tot

L110 ANSWER 1 OF 4 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

AB Lactobacillus plantarum was grown in complex media containing glucose and yeast extract. The maximum growth yield based on yeast extract consumption was 0.5 g dwt g(-1). Growth yield Y-ATP 15-17 g dwt mol ATP(-1) was almost constant in the glucose limited A-stat experiment whereas in the yeast extract limited culture it increased with dilution rate. The maximum specific growth rate observed, 0.5 h(-1), was similar for both A-stat and batch cultures. Specific oxygen consumption, Q(O2), reached the value of 1.8 mmol O-2 h(-1) g dwt(-1). It was shown that Val, Ile, Leu, Tyr and Phe, were consumed mainly as free amino acids, while Asp, Pro, Lys and Arg were derived from peptides. Significantly more Asp, Ser, Glu, Val, Ile, Leu and Phe were consumed than needed to build up cell protein whereas some Pro, Gly, Ala and **Lys** was **synthesized**. A network of metabolic reactions in L. plantarum was proposed on the basis of the experimental data.

L110 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

L110 ANSWER 3 OF 4 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

AB This paper dealt with the function of the glutamine-synthetase (GS, EC-6.3.2.3)-glutamate-synthase (GOGAT) pathway in ammonia assimilation and glutamate synthesis by glutamate producing bacteria. Characteristics were described of a method of glutamine production and its derivatives by use of GS from the glutamate producers and sugar fermentation of Saccharomyces cerevisiae as an ATP-regenerating system. The development of a rapid and sensitive enzymatic assay method for ammonia was reported, by using GS with pyruvate-kinase (EC-2.7.1.40), lactate-dehydrogenase (LDH, EC-1.1.1.27) and NADH. The time required for the determination of 25 nmol of ammonia was 5 min with 1 unit of GS. The method can be modified for spectroscopy in the visible region with increase in the sensitivity by substituting **pyruvate-oxidase** (EC-1.2.3.3), peroxidase (EC-1.11.1.7) and appropriate chromogens for LDH and NADH. The method was applicable to the continuous detection of some diagnostically important enzymes involved in ammonia formation. (3 ref)

L110 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AB The carbohydrate-metabolizing enzymes were determined in 7 species of saprophytic bacteria: Arthrobacter globiformis, **Corynebacterium ammoniagenes**, **Corynebacterium flavum**, Curtobacterium michiganense, Rhodococcus corallinus, R. globerulus, and R. minimus. All species contained high activity of fructose 6-phosphate phosphoketolase, xylose 5-phosphate phosphoketolase, and **pyruvate oxidase**, indicating that phosphates play an important role in the catabolism of carbohydrates in these bacteria. Other enzymes, including those of glycolysis and the phosphate pentose pathway, were also reported.

=> fil .becpat

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FULL ESTIMATED COST	211.86	212.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.47	-3.47

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3 FILES IN THE FILE LIST

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25055 WO/PC
24038 PRY<=2000
(PRY<=2000)

L111 19 (L16 OR L40 OR L77 OR L89) AND WO/PC AND PRY<=2000

FILE 'HCAPLUS'

169537 WO/PC
384463 PRY<=2000

L112 83 (L19 OR L43 OR L80 OR L92) AND WO/PC AND PRY<=2000

FILE 'WPIDS'

364172 WO/PC
1424659 PRY<=2000
(PRY<=2000)

L113 77 (L23 OR L47 OR L84 OR L96) AND WO/PC AND PRY<=2000

TOTAL FOR ALL FILES

L114 179 (L24 OR L48 OR L85 OR L97) AND WO/PC AND PRY<=2000

=> dup rem l114

PROCESSING COMPLETED FOR L114

L115 100 DUP REM L114 (79 DUPLICATES REMOVED)

=> d tot

L115 ANSWER 1 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Methods for carbon-centered radical mediated heavy hydrogen labeling of
compounds

SO U.S., 60 pp., Cont.-in-part of U.S. 6,649,736.

CODEN: USXXAM

IN Anderson, Vernon E.; Goshe, Michael B.

AN 2003:961174 HCAPLUS

DN 140:5313

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 6660836	B1	20031209	US 2000-579112	20000525	<--
	US 6649736	B1	20031118	US 1999-323741	19990601	<--
	WO 2000073325	A1	20001207	WO 2000-US15169	20000601	<--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
EP	1181307	A1	20020227	EP 2000-942659	20000601	<--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
	US 2003208038	A1	20031106	US 2003-449299	20030529	<--

L115 ANSWER 2 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

TI Novel polynucleotides from **Corynebacterium glutamicum** useful
for inducing and regulating expression of genes, including those that are
involved in **amino acid biosynthesis**, in
bacterial cells;

recombinant protein production via plasmid expression in host cell for enzyme transcription regulation and amino acid production

AU RAYAPATI P J; CRAFTON C M
AN 2003-00063 BIOTECHDS
PI WO 2002040679 23 May 2002

L115 ANSWER 3 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Polynucleotide sequence from coryneform bacteria useful for the fermentative preparation of nicotinic acid or its derivatives, encodes nadC gene which is enhanced, in particular over-expressed; vector plasmid pZ-nadCex-mediated phosphoenolpyruvate-carboxykinase gene transfer and expression in host cell for use as DNA chip, DNA microarray and DNA primer

AU BASTUCK C; BATHE B; DUSCH N; MOECKEL B; THIERBACH G
AN 2003-01847 BIOTECHDS
PI WO 2002038772 16 May 2002

L115 ANSWER 4 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New polynucleotide from coryneform bacteria coding for dep67 gene, where overexpression of the gene provides improved production of L-amino acids particularly L-lysine in *corynebacterium glutamicum*; plasmid vector-mediated recombinant protein gene transfer and expression in Escherichia coli, DNA primer, polymerase chain reaction, DNA microarray, DNA chip, DNA probe and fermentation for use in L-amino acid and L-lysine preparation

AU FARWICK M; HUTHMACHER K; HERMANN T; BATHE B; PFEFFERLE W
AN 2002-13587 BIOTECHDS
PI WO 2002027000 4 Apr 2002

L115 ANSWER 5 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Isolated polynucleotide from Coryneform bacteria, used for the fermentative production of L-amino acids, comprises a sequence coding for the msIK gene; recombinant protein gene, vector expression in host cell, culture medium fermentation and enzyme gene useful for foodstuff and human medicine

AU BATHE B; SCHISCHKA N; FARWICK M; PFEFFERLE W
AN 2002-12995 BIOTECHDS
PI WO 2002026989 4 Apr 2002

L115 ANSWER 6 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New dead gene encoding polypeptide having activity of DNA/RNA helicase, useful in bacteria for the fermentative preparation of L-amino acids, particularly L-lysine, from glucose, molasses, starch, cellulose or ethanol; vector-mediated gene transfer and expression in Escherichia coli, glucose, sucrose, lactose, fructose, molasses, starch, cellulose, glycerol and ethanol fermentation and DNA microarray for use in L-lysine and L-amino-acid preparation

AU FARWICK M; HUTHMACHER K; BREHME J; PFEFFERLE W
AN 2002-13342 BIOTECHDS
PI WO 2002026787 4 Apr 2002

L115 ANSWER 7 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New truB gene encoding polypeptide having activity of tRNA pseudouridine 55 synthase, useful in bacteria for fermentative preparation of L-amino acids, particularly L-lysine, from glucose, molasses, starch or ethanol; vector-mediated gene transfer and expression in Escherichia coli, glucose, sucrose, lactose, fructose, molasses, starch, cellulose, glycerol and ethanol fermentation, DNA microarray and DNA chip for use in L-lysine and L-amino-acid preparation

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BATHE B
AN 2002-13341 BIOTECHDS
PI WO 2002026786 4 Apr 2002

L115 ANSWER 8 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Novel polynucleotide from Coryneform bacteria coding for PPGK gene,
useful as hybridization probe for detecting DNA to isolate nucleic acids,
polynucleotides or genes coding for transcription activator ppgK;
recombinant **Corynebacterium** glutamicum production useful for
L-amino acid production, especially L-lysine production

AU BATHE B; MARTENS M; HERMANN T
AN 2002-15776 BIOTECHDS
PI WO 2002026755 4 Apr 2002

L115 ANSWER 9 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Polynucleotide sequence encoding ndkA gene useful for preparation of
L-amino acids e.g. L-lysine, and as hybridization probes for discovering
RNA, cDNA and DNA to isolate genes encoding nucleotide diphosphate
kinase;
plasmid vector-mediated dihydrodipicolinate-synthase gene transfer and
expression in Escherichia coli and DNA microarray and DNA chip for use
in **L-lysine** and **L-amino-acid**
preparation

AU BATHE B; BASTUCK C; MARX A; HERMANN T
AN 2002-13337 BIOTECHDS
PI WO 2002024880 28 Mar 2002

L115 ANSWER 10 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New ppsA gene of Coryneform bacteria, useful when overexpressed, for
increasing fermentative production of L-amino acids, encodes a
phosphoenol pyruvate synthase;
vector-mediated pyruvate-water-dikinase gene transfer and expression
in Coryneform glutamicum for enzyme activity enhancement for L-lysine
production

AU MOECKEL B; MARX A; BASTUCK C; BUCHHOLZ M; PFEFFERLE W
AN 2002-12968 BIOTECHDS
PI WO 2002022829 21 Mar 2002

L115 ANSWER 11 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Novel polynucleotide from coryneform bacteria coding for
phosphotransferase system enzyme I, useful for isolating nucleic acids,
polynucleotides or genes which code for phosphotransferase system enzyme
I;
bacterium strain improvement useful for L-amino acid, especially
L-lysine, production

AU MOECKEL B; HANS S; SCHISCHKA N; PFEFFERLE W
AN 2002-13248 BIOTECHDS
PI WO 2002022827 21 Mar 2002

L115 ANSWER 12 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New ccsB gene of coryneform bacteria, useful when overexpressed for
increasing fermentative production of L-amino acids, encodes a cytochrome
c synthesis protein;
vector-mediated gene transfer and expression in host cell for strain
improvement and **L-amino acid preparation**

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BATHE B; HERMANN T
AN 2002-12659 BIOTECHDS
PI WO 2002022672 21 Mar 2002

L115 ANSWER 13 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New pstC2 gene of coryneform bacteria, useful when suppressed for
increasing fermentative production of L-amino acids, encodes a
membrane-bound phosphate transporter protein;
vector-mediated gene transfer and expression in host cell for strain

improvement and L-**amino acid preparation**

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BREHME J
AN 2002-12658 BIOTECHDS
PI WO 2002022671 21 Mar 2002

L115 ANSWER 14 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New Atr61 gene of Coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes an ABC transporter protein;
vector-mediated gene transfer and expression in host cell for strain improvement and L-**lysine preparation**

AU FARWICK M; HUTHMACHER K; PFEFFERLE W
AN 2002-13089 BIOTECHDS
PI WO 2002022633 21 Mar 2002

L115 ANSWER 15 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Novel polynucleotide from Coryneform bacteria coding for lysR1 gene, useful as hybridization probe for detecting DNA coding for transcription regulator lysR1;
vector plasmid pCR2.1lysR1int-mediated gene transfer and expression in Escherichia coli and polymerase chain reaction for use in L-**lysine and L-amino-acid preparation**

AU MOECKEL B; FARWICK M; HERMANN T; KREUTZER C; PFEFFERLE W
AN 2002-11052 BIOTECHDS
PI WO 2002012295 14 Feb 2002

L115 ANSWER 16 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Novel polynucleotide from Coryneform bacteria coding for luxR gene, useful as hybridization probe for detecting DNA to isolate nucleic acids, polynucleotides or genes coding for transcription activator luxR;
recombinant protein production, vector expression in bacterium, culture medium fermentation and transcription activator useful for L-valine and L-lysine

AU MOECKEL B; KREUTZER C; BATHE B
AN 2002-11051 BIOTECHDS
PI WO 2002012291 14 Feb 2002

L115 ANSWER 17 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI New coryneform bacterium in which the mdhA gene is attenuated, preferably eliminated, useful for fermentative production of L-amino acids such as L-lysine;
malate-dehydrogenase gene transfer in **Corynebacterium glutamicum**, DNA array, DNA microarray and DNA chip useful for medicine, pharmaceutical, food industry and feedstuff

AU MOLENAAR D; VAN DER REST M E; DRYSCH A
AN 2002-08500 BIOTECHDS
PI WO 2002002778 10 Jan 2002

L115 ANSWER 18 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 17
TI The nadA gene of **Corynebacterium glutamicum** encoding quinolinate synthetase A and its use in increasing yields of nicotinic acid in fermentation

SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2

IN Bastuck, Christine; Bathe, Brigitte; Dusch, Nicole; Moeckel, Bettina; Thierbach, Georg
AN 2002:368502 HCAPLUS
DN 136:385045

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038598	A1	20020516	WO 2001-EP12042	20011012 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10055869 A1 20020529 DE 2000-10055869 20001110
 US 2002137163 A1 20020926 US 2001-789599 20010222 <--
 US 6692946 B2 20040217
 AU 2002023623 A5 20020521 AU 2002-23623 20011012 <--

L115 ANSWER 19 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 18

TI Process for the fermentative preparation of L-amino acids using strains of
 the Enterobacteriaceae family

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

IN Rieping, Mechthild; Thierbach, Georg

AN 2002:353633 HCAPLUS

DN 136:354250

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036797	A2	20020510	WO 2001-EP11228	20010928 <--
WO 2002036797	A3	20021114		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10112107	A1	20020508	DE 2001-10112107	20010314 <--
AU 2002015910	A5	20020515	AU 2002-15910	20010928 <--
EP 1330526	A2	20030730	EP 2001-992788	20010928 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

L115 ANSWER 20 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 19

TI The cobW gene of **Corynebacterium** encoding a cobalamin synthesis
 related protein for use in engineering **lysine**

biosynthesis

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Schischka, Natalie; Pfefferle, Walter

AN 2002:256478 HCAPLUS

DN 136:278228

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026992	A1	20020404	WO 2001-EP8989	20010803 <--
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10117815	A1	20020418	DE 2001-10117815	20010410 <--
AU 2001091729	A5	20020408	AU 2001-91729	20010803 <--
EP 1320610	A1	20030625	EP 2001-971862	20010803 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002102668 A1 20020801 US 2001-946785 20010906 <--

L115 ANSWER 21 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 20

TI Sequence of def gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Brehme, Jennifer; Pfefferle, Walter

AN 2002:240981 HCAPLUS

DN 136:278223

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002024922	A1	20020328	WO 2001-EP8602	20010725 <--
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10113957	A1	20020411	DE 2001-10113957	20010322 <--
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US 2002106750	A1	20020808	US 2001-825345	20010404 <--
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AU 2001082023	A5	20020402	AU 2001-82023	20010725 <--
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L115 ANSWER 22 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 21

TI Sequences of thyA gene from **corynebacteria** and use thereof in
production of L-lysine

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

IN Marx, Achim; Schischka, Natalie; Bathe, Brigitte; Farwick, Mike

AN 2002:240978 HCAPLUS

DN 136:278222

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002024919	A1	20020328	WO 2001-EP9170	20010808 <--
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10133162	A1	20020404	DE 2001-10133162	20010707 <--
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AU 2001079809	A5	20020402	AU 2001-79809	20010808 <--
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EP 1319076	A1	20030618	EP 2001-958061	20010808 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2002107379	A1	20020808	US 2001-954197	20010918 <--
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L115 ANSWER 23 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 22

TI Sequences of dctA gene from **corynebacteria** and use thereof in
production of L-lysine

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Hermann, Thomas;
Pfefferle, Walter

AN 2002:240974 HCAPLUS

DN 136:278221

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002024915	A1	20020328	WO 2001-EP9099	20010807 <--
	WO 2002024915	C1	20020613		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10132724	A1	20020411	DE 2001-10132724	20010705 <--
	AU 2001093731	A5	20020402	AU 2001-93731	20010807 <--
	US 2002106759	A1	20020808	US 2001-951780	20010914 <--

L115 ANSWER 24 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 23

TI Sequences of pknB gene from **corynebacteria** and use thereof in production of L-lysine

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Hans, Stephan; Farwick, Mike; Hermann, Thomas

AN 2002:220796 HCAPLUS

DN 136:261907

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002022828	A1	20020321	WO 2001-EP10211	20010905 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10120095	A1	20020328	DE 2001-10120095	20010425 <--
	AU 2001082132	A5	20020326	AU 2001-82132	20010905 <--
	EP 1317547	A1	20030611	EP 2001-960723	20010905 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2002042105	A1	20020411	US 2001-949970	20010912 <--

L115 ANSWER 25 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 24

TI Sequence of atr43 gene from **corynebacteria** and use thereof in

synthesis of L-lysine

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter

AN 2002:220783 HCAPLUS

DN 136:261905

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002022814	A2	20020321	WO 2001-EP8650	20010726 <--
	WO 2002022814	A3	20020516		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 10123070	A1	20020411	DE 2001-10123070	20010511	<--
AU 2001078509	A5	20020326	AU 2001-78509	20010726	<--
US 2002142404	A1	20021003	US 2001-951768	20010914	<--

L115 ANSWER 26 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 25

TI Sequence of sugA gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Hermann, Thomas;
Marx, Achim

AN 2002:220643 HCAPLUS

DN 136:261901

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002022669	A1	20020321	WO 2001-EP9164	20010808	<--
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10108839	A1	20020328	DE 2001-10108839	20010223	<--
	AU 2001093741	A5	20020326	AU 2001-93741	20010808	<--
	EP 1326889	A1	20030716	EP 2001-974139	20010808	<--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2002127661	A1	20020912	US 2001-951753	20010914	<--

L115 ANSWER 27 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 26

TI Sequence of gorA gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Marx, Achim

AN 2002:220640 HCAPLUS

DN 136:261899

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002022666	A2	20020321	WO 2001-EP9314	20010811	<--
	WO 2002022666	A3	20020725			
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10109023	A1	20020328	DE 2001-10109023	20010224	<--
	AU 2001095456	A5	20020326	AU 2001-95456	20010811	<--
	EP 1317546	A2	20030611	EP 2001-976069	20010811	<--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2002106758	A1	20020808	US 2001-946764	20010906	<--

L115 ANSWER 28 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 27

TI Sequences of pknD gene from **corynebacteria** and use thereof in
production of L-lysine

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Schroeder, Indra; Farwick, Mike; Hermann, Thomas
AN 2002:220607 HCAPLUS
DN 136:261897

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022632	A2	20020321	WO 2001-EP10210	20010905 <--
WO 2002022632	A3	20020613		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10120094	A1	20020328	DE 2001-10120094	20010425 <--
AU 2001095539	A5	20020326	AU 2001-95539	20010905 <--
EP 1317545	A2	20030611	EP 2001-976189	20010905 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2002039766	A1	20020404	US 2001-949971	20010912 <--

L115 ANSWER 29 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 28

TI Sequences of sahH gene from **corynebacteria** and use thereof in
production of L-lysine or L-methionine

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Brehme, Jennifer; Pfefferle, Walter;
Binder, Michael; Greissinger, Dieter; Thierbach, Georg

AN 2002:185340 HCAPLUS

DN 136:231342

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020806	A1	20020314	WO 2001-EP8222	20010717 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10109685	A1	20020411	DE 2001-10109685	20010228 <--
AU 2001079755	A5	20020322	AU 2001-79755	20010717 <--
EP 1315820	A1	20030604	EP 2001-957975	20010717 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2003100080	A1	20030529	US 2001-919854	20010802 <--

L115 ANSWER 30 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 29

TI Sequence of luxS gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Kreutzer, Caroline; Marx, Achim; Pfefferle, Walter

AN 2002:185334 HCAPLUS

DN 136:246479

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020799	A2	20020314	WO 2001-EP9095	20010807 <--
WO 2002020799	A3	20020530		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10112105 A1 20020321 DE 2001-10112105 20010314 <--
US 2002182689 A1 20021205 US 2001-824551 20010801 <--
AU 2001087664 A5 20020322 AU 2001-87664 20010807 <--
EP 1315818 A2 20030604 EP 2001-967238 20010807 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L115 ANSWER 31 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 30

TI Sequence of chrA gene from **corynebacteria** and use thereof in

synthesis of L-lysine

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Schischka, Natalie; Marx, Achim; Pfefferle, Walter

AN 2002:185331 HCAPLUS

DN 136:246478

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020793	A1	20020314	WO 2001-EP9098	20010807 <--
	WO 2002020793	C1	20020613		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
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	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10112098	A1	20020328	DE 2001-10112098	20010314 <--
	US 2002155554	A1	20021024	US 2001-824524	20010404 <--
	AU 2001093730	A5	20020322	AU 2001-93730	20010807 <--

L115 ANSWER 32 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 31

TI Sequence of dep33 gene from **corynebacteria** and use thereof in

synthesis of L-lysine

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Hermann, Thomas;
Bathe, Brigitte

AN 2002:185330 HCAPLUS

DN 136:246477

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020792	A1	20020314	WO 2001-EP9038	20010804 <--
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10112430	A1	20020321	DE 2001-10112430	20010315 <--
	AU 2001093723	A5	20020322	AU 2001-93723	20010804 <--

US 2002055115 A1 20020509 US 2001-948777 20010910 <--

L115 ANSWER 33 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 32

TI Sequence of hisC2 gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Pfefferle, Walter

AN 2002:185322 HCAPLUS

DN 136:246476

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020771	A2	20020314	WO 2001-EP9037	20010804 <--
WO 2002020771	A3	20020516		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10108838	A1	20020404	DE 2001-10108838	20010223 <--
AU 2001079804	A5	20020322	AU 2001-79804	20010804 <--
US 2002106672	A1	20020808	US 2001-948649	20010910 <--

L115 ANSWER 34 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 33

TI Sequence of clpC gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Rieping, Mechthild;
Pfefferle, Walter

AN 2002:185169 HCAPLUS

DN 136:246475

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020574	A1	20020314	WO 2001-EP9970	20010830 <--
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10136987	A1	20020321	DE 2001-10136987	20010728 <--
AU 2001085916	A5	20020322	AU 2001-85916	20010830 <--
EP 1315744	A1	20030604	EP 2001-965231	20010830 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002102669	A1	20020801	US 2001-949036	20010910 <--

L115 ANSWER 35 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 34

TI Sequences of gpmB gene from **corynebacteria** and use thereof in
production of L-lysine

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Schroeder, Indra; Pfefferle, Walter

AN 2002:185168 HCAPLUS

DN 136:246474

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 PI WO 2002020573 A2 20020314 WO 2001-EP9453 20010816 <--
 WO 2002020573 A3 20020516
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10133668 A1 20020411 DE 2001-10133668 20010711 <--
 AU 2001095470 A5 20020322 AU 2001-95470 20010816 <--
 EP 1315825 A2 20030604 EP 2001-976088 20010816 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002052486 A1 20020502 US 2001-947442 20010907 <--

L115 ANSWER 36 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 35
 TI Sequence of chrS gene from **corynebacteria** and use thereof in
synthesis of L-lysine
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 IN Bathe, Brigitte; Schischka, Natalie; Marx, Achim; Pfefferle, Walter
 AN 2002:185167 HCAPLUS
 DN 136:246473

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002020572	A2	20020314	WO 2001-EP9096	20010807 <--
	WO 2002020572	A3	20020808		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	DE 10109022	A1	20020321	DE 2001-10109022	20010224 <--
	AU 2002013849	A5	20020322	AU 2002-13849	20010807 <--
	EP 1315819	A2	20030604	EP 2001-982203	20010807 <--
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	US 2002055114	A1	20020509	US 2001-948774	20010910 <--
	US 6734002	B2	20040511		

L115 ANSWER 37 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 36
 TI Sequences of gap2 gene from **corynebacteria** and use thereof in
 production of L-lysine
 SO PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 IN Bathe, Brigitte; Hans, Stephan; Pfefferle, Walter
 AN 2002:185138 HCAPLUS
 DN 136:246472

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002020542	A2	20020314	WO 2001-EP9785	20010824 <--
	WO 2002020542	A3	20020530		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,		

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10136985 A1 20020321 DE 2001-10136985 20010728 <--
 AU 2001091796 A5 20020322 AU 2001-91796 20010824 <--
 EP 1315745 A2 20030604 EP 2001-971961 20010824 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002058277 A1 20020516 US 2001-948619 20010910 <--

L115 ANSWER 38 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 37

TI Sequences of metY gene from **corynebacteria** and use thereof in
 production of L-lysine or L-methionine

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus; Rueckert,
 Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael;
 Greissinger, Dieter; Thierbach, Georg

AN 2002:172115 HCAPLUS

DN 136:231338

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018613	A1	20020307	WO 2001-EP8223	20010717 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109690	A1	20020314	DE 2001-10109690	20010228 <--
AU 2001089666	A5	20020313	AU 2001-89666	20010717 <--
EP 1313871	A1	20030528	EP 2001-969400	20010717 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002110878	A1	20020815	US 2001-919932	20010802 <--

L115 ANSWER 39 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 38

TI Sequence of sigM gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Bastuck, Christine; Farwick, Mike; Hermann, Thomas;
 Pfefferle, Walter

AN 2002:172101 HCAPLUS

DN 136:215517

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018599	A1	20020307	WO 2001-EP9972	20010830 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10136984	A1	20020418	DE 2001-10136984	20010728 <--
AU 2001089850	A5	20020313	AU 2001-89850	20010830 <--

US 2002106755 A1 20020808 US 2001-942935 20010831 <--

L115 ANSWER 40 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 39

TI Sequence of sigH gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Schroeder, Indra; Rieping, Mechthild; Marx, Achim;
Farwick, Mike; Pfefferle, Walter; Hermann, Thomas

AN 2002:172100 HCAPLUS

DN 136:231337

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002018598	A1	20020307	WO 2001-EP9250	20010810 <--
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10133427	A1	20020314	DE 2001-10133427	20010710 <--
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AU 2001082084	A5	20020313	AU 2001-82084	20010810 <--
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US 2002106756	A1	20020808	US 2001-942936	20010831 <--
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US 6727086	B2	20040427		
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L115 ANSWER 41 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 40

TI Citb gene from **corynebacteria** and use thereof in
synthesis of L-lysine or valine

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Hermann, Thomas; Farwick, Mike; Pfefferle, Walter; Marx,
Achim

AN 2002:172098 HCAPLUS

DN 136:215516

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002018596	A1	20020307	WO 2001-EP8387	20010720 <--
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10108841	A1	20020314	DE 2001-10108841	20010223 <--
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AU 2001079769	A5	20020313	AU 2001-79769	20010720 <--
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EP 1313856	A1	20030528	EP 2001-957993	20010720 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2002086372	A1	20020704	US 2001-942937	20010831 <--
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L115 ANSWER 42 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 41

TI Sequence of sigC gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Hans, Stephan; Farwick, Mike; Hermann, Thomas; Pfefferle,
Walter

AN 2002:172091 HCAPLUS

DN 136:231335
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002018589 A2 20020307 WO 2001-EP9163 20010808 <--
WO 2002018589 A3 20020815
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10133426 A1 20020314 DE 2001-10133426 20010710 <--
AU 2001093740 A5 20020313 AU 2001-93740 20010808 <--
EP 1320543 A2 20030625 EP 2001-974138 20010808 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002146782 A1 20021010 US 2001-941936 20010830 <--

L115 ANSWER 43 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 42

TI Sequences of metR and metZ gene from **corynebacteria** and use thereof in synthesis of L-methionine

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Pfefferle, Walter; Huthmacher, Klaus; Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael; Greissinger, Dieter; Thierbach, Georg

AN 2002:171942 HCAPLUS

DN 136:231333

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002018430 A2 20020307 WO 2001-EP8221 20010717 <--
WO 2002018430 A3 20020704
WO 2002018430 C1 20040304
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10109688 A1 20020314 DE 2001-10109688 20010228 <--
AU 2001081984 A5 20020313 AU 2001-81984 20010717 <--
EP 1313757 A2 20030528 EP 2001-960503 20010717 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002102664 A1 20020801 US 2001-919831 20010802 <--

L115 ANSWER 44 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 43

TI Sequence of sigE gene from **corynebacteria** and use thereof in **synthesis of L-lysine**

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Hermann, Thomas; Farwick, Mike; Binder, Michael; Pfefferle, Walter

AN 2002:171940 HCAPLUS

DN 136:231331

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002018428 A2 20020307 WO 2001-EP8146 20010714 <--

WO 2002018428 A3 20020606
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
DE 10126422 A1 20020314 DE 2001-10126422 20010531 <--
AU 2001085843 A5 20020313 AU 2001-85843 20010714 <--
EP 1320616 A2 20030625 EP 2001-965132 20010714 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002103356 A1 20020801 US 2001-935757 20010824 <--

L115 ANSWER 45 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 44

TI Sequence of *citA* gene from *Corynebacteria* and use thereof in

synthesis of L-lysine or valine

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Farwick, Mike; Hermann, Thomas; Marx, Achim; Pfefferle,
Walter

AN 2002:171939 HCAPLUS

DN 136:231330

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018427	A2	20020307	WO 2001-EP7766	20010706 <--
WO 2002018427	A3	20020516		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10108463	A1	20020314	DE 2001-10108463	20010222 <--
US 2002081672	A1	20020627	US 2001-804060	20010313 <--
AU 2001093698	A5	20020313	AU 2001-93698	20010706 <--
EP 1313760	A2	20030528	EP 2001-974079	20010706 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

L115 ANSWER 46 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 45

TI Sequences of *Corynebacterium glutamicum* gene *lysR3* encoding
transcription regulator and its use in increasing yields of L-lysine and
L-valine in fermentation

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Kreutzer, Caroline

AN 2002:123219 HCAPLUS

DN 136:182549

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012505	A1	20020214	WO 2001-EP7765	20010706 <--
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 10039049 A1 20020221 DE 2000-10039049 20000810
 US 2003100099 A1 20030529 US 2001-867537 20010531 <--
 AU 2001076385 A5 20020218 AU 2001-76385 20010706 <--
 EP 1307562 A1 20030507 EP 2001-954016 20010706 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L115 ANSWER 47 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 46

TI Sequences of **Corynebacterium** glutamicum gene lysR2 encoding
 transcription regulator and its use in increasing yields of L-lysine and
 L-valine in fermentation

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Farwick, Mike; Hermann, Thomas; Kreutzer, Caroline;
 Pfefferle, Walter

AN 2002:123218 HCAPLUS

DN 136:182548

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012504	A1	20020214	WO 2001-EP6808	20010615 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10110346	A1	20020221	DE 2001-10110346	20010303 <--
AU 2001079663	A5	20020218	AU 2001-79663	20010615 <--
EP 1307563	A1	20030507	EP 2001-957853	20010615 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002081674	A1	20020627	US 2001-826909	20010724 <--

L115 ANSWER 48 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 47

TI The methH gene of **Corynebacterium** glutamicum encoding
 homocysteine methyltransferase II and its use in increasing yields of
 L-methionine in fermentation

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

IN Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus;
 Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael;
 Greissinger, Dieter; Thierbach, Georg

AN 2002:107385 HCAPLUS

DN 136:149989

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010209	A1	20020207	WO 2001-EP8220	20010717 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109687	A1	20020221	DE 2001-10109687	20010228 <--
EP 1307475	A1	20030507	EP 2001-965135	20010717 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2002048793 A1 20020425 US 2001-919891 20010802 <--

L115 ANSWER 49 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 48

TI The metE gene of **Corynebacterium** glutamicum encoding
homocysteine methyltransferase I and its use in increasing yields of
L-methionine in fermentation

SO PCT Int. Appl., 62 pp.
CODEN: PIXXD2

IN Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus;
Rueckert, Christian; Kalinowski, Joern; Puehler, Alfred; Binder, Michael;
Greissinger, Dieter; Thierbach, Georg

AN 2002:107384 HCAPLUS

DN 136:149988

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010208	A1	20020207	WO 2001-EP8219	20010717 <--
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109689	A1	20020221	DE 2001-10109689	20010228 <--
EP 1307476	A1	20030507	EP 2001-967191	20010717 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002110877	A1	20020815	US 2001-919835	20010802 <--

L115 ANSWER 50 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 49

TI The metF gene of **Corynebacterium** glutamicum encoding
methylenetetrahydrofolate reductase and its use in increasing yields of
L-methionine in fermentation

SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2

IN Bathe, Brigitte; Moeckel, Bettina; Pfefferle, Walter; Huthmacher, Klaus;
Binder, Michael; Greissinger, Dieter; Thierbach, Georg

AN 2002:107382 HCAPLUS

DN 136:149987

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010206	A2	20020207	WO 2001-EP8224	20010717 <--
WO 2002010206	A3	20020502		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,				
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109686	A1	20020221	DE 2001-10109686	20010228 <--
EP 1307477	A2	20030507	EP 2001-967192	20010717 <--
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002049305	A1	20020425	US 2001-919935	20010802 <--

L115 ANSWER 51 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 50

TI Sequences of **Corynebacterium** glutamicum genes of cysteine

biosynthesis the development of strains for **amino acid** fermentation

SO Ger. Offen., 36 pp.

CODEN: GWXXBX

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Schischka, Natalie; Bathe, Brigitte

AN 2002:214906 HCAPLUS

DN 136:242992

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10136986	A1	20020321	DE 2001-10136986	20010728 <--
WO 2002029029	A2	20020411	WO 2001-EP9723	20010823 <--
WO 2002029029	A3	20020613		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002010456	A5	20020415	AU 2002-10456	20010823 <--
EP 1320593	A2	20030625	EP 2001-978296	20010823 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2002086373	A1	20020704	US 2001-962357	20010926 <--

L115 ANSWER 52 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 51

TI The mtrA and mtrB genes of **Corynebacterium** encoding two-component signal transduction pathway for use in engineering **lysine biosynthesis**

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

AN 2002:391316 HCAPLUS

DN 136:382849

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10125089	A1	20020523	DE 2001-10125089	20010523 <--
WO 2002042472	A1	20020530	WO 2001-EP12220	20011023 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002023637	A5	20020603	AU 2002-23637	20011023 <--
EP 1337649	A1	20030827	EP 2001-997557	20011023 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2002137073	A1	20020926	US 2001-990337	20011123 <--
US 6703223	B2	20040309		
US 2003157551	A1	20030821	US 2003-411318	20030411 <--

L115 ANSWER 53 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 52

TI The cysQ gene of **Corynebacterium** encoding a transport protein for use in engineering **lysine biosynthesis**

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Pfefferle, Walter

AN 2002:391291 HCAPLUS

DN 136:382848

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10057801	A1	20020523	DE 2000-10057801	20001122
WO 2002042466	A2	20020530	WO 2001-EP12294	20011024 <--
WO 2002042466	A3	20030313		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002024789 A5 20020603 AU 2002-24789 20011024 <--

EP 1335980 A2 20030820 EP 2001-994615 20011024 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2002115162 A1 20020822 US 2001-987446 20011114 <--

L115 ANSWER 54 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequences of hemD and hmB gene from **corynebacteria** and use thereof in production of L-lysine

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Schischka, Natalie; Marx, Achim

AN 2002:332215 HCAPLUS

DN 136:354247

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034775	A2	20020502	WO 2001-EP11705	20011010 <--
WO 2002034775	A3	20020919		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10145585 A1 20020502 DE 2001-10145585 20010915 <--

AU 2002018223 A5 20020506 AU 2002-18223 20011010 <--

L115 ANSWER 55 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Materials and methods to modulate ligand binding/enzymic activity of α/β proteins containing an allosteric regulatory site

SO PCT Int. Appl., 163 pp.

CODEN: PIXXD2

IN Stauton, Donald E.

AN 2002:293978 HCAPLUS

DN 136:337341

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031511	A2	20020418	WO 2001-US32047	20011012 <--
WO 2002031511	A3	20030313		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002013196 A5 20020422 AU 2002-13196 20011012 <--
 US 2003088061 A1 20030508 US 2001-976935 20011012 <--
 EP 1325341 A2 20030709 EP 2001-981560 20011012 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004511496 T2 20040415 JP 2002-534845 20011012 <--

L115 ANSWER 56 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Process for the fermentative preparation of D-pantothenic acid using coryneform bacteria with **poxb** gene being eliminated
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 IN Dusch, Nicole; Hermann, Thomas; Thierbach, Georg
 AN 2002:276126 HCAPLUS
 DN 136:308622

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002029020	A1	20020411	WO 2001-EP10212	20010905 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10117085	A1	20020411	DE 2001-10117085	20010406 <--
AU 2001091825	A5	20020415	AU 2001-91825	20010905 <--
EP 1320586	A1	20030625	EP 2001-972003	20010905 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002150999	A1	20021017	US 2001-965825	20011001 <--

L115 ANSWER 57 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Sequence of mikiE17 gene from **corynebacteria** and use thereof in **synthesis** of L-lysine
 SO PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter
 AN 2002:256495 HCAPLUS
 DN 136:293614

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002027009	A1	20020404	WO 2001-EP8781	20010728 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10113958	A1	20020418	DE 2001-10113958	20010322 <--
US 2002106749	A1	20020808	US 2001-825293	20010404 <--
AU 2001095445	A5	20020408	AU 2001-95445	20010728 <--

L115 ANSWER 58 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Coryneform bacteria menE gene encoding o-succinylbenzoic acid coA ligase and a method for fermentative preparation of amino acids in bacteria in

which the menE gene is attenuated
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Marx, Achim
AN 2002:240996 HCAPLUS
DN 136:258366

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024937	A1	20020328	WO 2001-EP9221	20010809 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10112106	A1	20020328	DE 2001-10112106	20010314 <--
US 2002102663	A1	20020801	US 2001-834722	20010416 <--
AU 2001079811	A5	20020402	AU 2001-79811	20010809 <--
EP 1319084	A1	20030618	EP 2001-958064	20010809 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

L115 ANSWER 59 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Sequence of pepC gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Rieping, Mechthild;
Pfefferle, Walter
AN 2002:240987 HCAPLUS
DN 136:278224

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024928	A1	20020328	WO 2001-EP8708	20010727 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10108828	A1	20020328	DE 2001-10108828	20010223 <--
US 2002098554	A1	20020725	US 2001-804073	20010313 <--
AU 2001089765	A5	20020402	AU 2001-89765	20010727 <--

L115 ANSWER 60 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Sequences of dps gene from **corynebacteria** and use thereof in
production of L-lysine

SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2
IN Bathe, Brigitte; Kreutzer, Caroline; Rieping, Mechthild; Marx, Achim;
Farwick, Mike; Pfefferle, Walter
AN 2002:240813 HCAPLUS
DN 136:278218

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024737	A1	20020328	WO 2001-EP10523	20010912 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
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 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 DE 10046623 A1 20020328 DE 2000-10046623 20000920
 AU 2002012232 A5 20020402 AU 2002-12232 20010912 <--
 EP 1319019 A1 20030618 EP 2001-980373 20010912 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002106760 A1 20020808 US 2001-955315 20010919 <--

L115 ANSWER 61 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of tmk gene from **corynebacteria** and use thereof in

synthesis of L-lysine

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Marx, Achim; Pfefferle, Walter

AN 2002:240792 HCAPLUS

DN 136:278217

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024716	A2	20020328	WO 2001-EP10268	20010906 <--
WO 2002024716	A3	20021205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10140095	A1	20020328	DE 2001-10140095	20010816 <--
AU 2002014966	A5	20020402	AU 2002-14966	20010906 <--
EP 1319077	A2	20030618	EP 2001-983465	20010906 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002137065	A1	20020926	US 2001-955203	20010919 <--

L115 ANSWER 62 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of dep34 gene from **corynebacteria** and use thereof in

synthesis of L-lysine

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Hermann, Thomas;
 Bathe, Brigitte

AN 2002:220807 HCAPLUS

DN 136:261909

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022843	A2	20020321	WO 2001-EP9313	20010811 <--
WO 2002022843	A3	20020711		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 10112429 A1 20020321 DE 2001-10112429 20010315 <--
 AU 2002019032 A5 20020326 AU 2002-19032 20010811 <--
 EP 1315815 A2 20030604 EP 2001-984655 20010811 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002106757 A1 20020808 US 2001-946763 20010906 <--

L115 ANSWER 63 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequences of ftsX gene from **corynebacteria** and use thereof in
 production of L-lysine

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Brehme, Jennifer;
 Rieping, Mechthild

AN 2002:220644 HCAPLUS

DN 136:261902

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022670	A1	20020321	WO 2001-EP9375	20010814 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10132176	A1	20020321	DE 2001-10132176	20010703 <--
AU 2001087682	A5	20020326	AU 2001-87682	20010814 <--
US 2002107377	A1	20020808	US 2001-946769	20010906 <--

L115 ANSWER 64 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequences of rodA gene from **corynebacteria** and use thereof in
 production of L-lysine

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

IN Farwick, Mike; Huthmacher, Klaus; Pfefferle, Walter; Bathe, Brigitte

AN 2002:220642 HCAPLUS

DN 136:261900

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022668	A1	20020321	WO 2001-EP9097	20010807 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10132947	A1	20020321	DE 2001-10132947	20010706 <--
AU 2001085878	A5	20020326	AU 2001-85878	20010807 <--
US 2002051993	A1	20020502	US 2001-950071	20010912 <--

L115 ANSWER 65 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of cstA gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

IN Moeckel, Bettina; Marx, Achim; Pfefferle, Walter; Farwick, Mike; Hermann,
 Thomas

AN 2002:172099 HCAPLUS

DN 136:231336

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018597	A1	20020307	WO 2001-EP8601	20010725 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10042051	A1	20020307	DE 2000-10042051	20000826
AU 2001082022	A5	20020313	AU 2001-82022	20010725 <--
EP 1311683	A1	20030521	EP 2001-960554	20010725 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002137912	A1	20020926	US 2001-935799	20010824 <--

L115 ANSWER 66 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of oxyR gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2

IN Marx, Achim; Farwick, Mike; Hermann, Thomas; Schischka, Natalie; Bathe,
 Brigitte

AN 2002:171943 HCAPLUS

DN 136:231334

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018431	A1	20020307	WO 2001-EP8388	20010720 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10110053	A1	20020307	DE 2001-10110053	20010302 <--
AU 2001089706	A5	20020313	AU 2001-89706	20010720 <--
EP 1313758	A1	20030528	EP 2001-969448	20010720 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002064839	A1	20020530	US 2001-938641	20010827 <--

L115 ANSWER 67 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of ccpA2 gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 43 pp.
 CODEN: PIXXD2

IN Moeckel, Bettina; Kreutzer, Caroline; Hermann, Thomas; Farwick, Mike;
 Marx, Achim; Pfefferle, Walter

AN 2002:171941 HCAPLUS

DN 136:231332

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018429	A1	20020307	WO 2001-EP7386	20010628 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
 ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 DE 10123071 A1 20020307 DE 2001-10123071 20010511 <--
 AU 2001091658 A5 20020313 AU 2001-91658 20010628 <--
 EP 1313759 A1 20030528 EP 2001-971740 20010628 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002068336 A1 20020606 US 2001-938642 20010827 <--
 US 6689586 B2 20040210

L115 ANSWER 68 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sequence of ccpA1 gene from **corynebacteria** and use thereof in
synthesis of L-lysine

SO PCT Int. Appl., 38 pp. o

CODEN: PIXXD2

IN Moeckel, Bettina; Kreutzer, Caroline

AN 2002:171931 HCAPLUS

DN 136:231329

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018419	A2	20020307	WO 2001-EP8356	20010719 <--
WO 2002018419	A3	20021031		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG DE 10110052 A1 20020307 DE 2001-10110052 20010302 <-- AU 2002012114 A5 20020313 AU 2002-12114 20010719 <-- EP 1311685 A2 20030521 EP 2001-980214 20010719 <-- R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2002151001 A1 20021017 US 2001-938540 20010827 <--				

L115 ANSWER 69 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Nucleotide sequence of the lldd2 gene of **Corynebacterium** coding
 for lactate dehydrogenase for use in increasing yields in amino acid
 fermentation

SO Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

IN Farwick, Mike; Huthmacher, Klaus; Bathe, Brigitte; Pfefferle, Walter

AN 2002:183815 HCAPLUS

DN 136:246469

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1186657	A1	20020313	EP 2001-117811	20010721 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO DE 10044681 A1 20020321 DE 2000-10044681 20000909 WO 2002059329 A1 20020801 WO 2001-EP797 20010125 <-- W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1354051 A1 20031022 EP 2001-919248 20010125
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002055152 A1 20020509 US 2001-946142 20010905 <--

L115 ANSWER 70 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Fermentative production of L-amino acids with **poxB** mutants of
 Enterobacteriaceae

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

IN Thierbach, Georg; Rieping, Mechthild

AN 2002:349112 HCAPLUS

DN 136:354249

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10112107	A1	20020508	DE 2001-10112107	20010314 <--
	WO 2002036797	A2	20020510	WO 2001-EP11228	20010928 <--
	WO 2002036797	A3	20021114		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				
	UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002015910	A5	20020515	AU 2002-15910	20010928 <--
	EP 1330526	A2	20030730	EP 2001-992788	20010928 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003017554	A1	20030123	US 2002-76416	20020219 <--

L115 ANSWER 71 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New hemD and hemB genes and polypeptides of coryneform bacteria, useful,
 when overexpressed, for increasing fermentative production of amino acids.

PI DE 10145585 A1 20020502 (200248)* 24 C12N015-52
 WO 2002034775 A2 20020502 (200248) EN C07K014-34 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2002018223 A 20020506 (200257) C07K014-34
 IN FARWICK, M; HUTHMACHER, K; MARX, A; PFEFFERLE, W; SCHISCHKA, N

L115 ANSWER 72 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New tmk gene of Coryneform bacteria, useful when suppressed, for
 increasing fermentative production of L-amino acids, encodes a thymidylate
 kinase.

PI DE 10140095 A1 20020328 (200238)* 17 C12N015-54
 WO 200204716 A2 20020328 (200238) EN C07H021-00 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2002014966 A 20020402 (200252) C07H021-00
 US 2002137065 A1 20020926 (200265) C12Q001-68
 EP 1319077 A2 20030618 (200340) EN C12N015-54

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

IN FARWICK, M; HUTHMACHER, K; MARX, A; PFEFFERLE, W

L115 ANSWER 73 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI RodA genes from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acid, especially L-lysine.

PI DE 10132947 A1 20020321 (200241)* 18 C12N015-31
US 2002051993 A1 20020502 (200241) C12Q001-68
WO 2002022668 A1 20020321 (200241) EN C07K014-34 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
AU 2001085878 A 20020326 (200251) C07K014-34

IN BATHE, B; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W

L115 ANSWER 74 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New ftsX gene from coryneform bacteria, useful, when over expressed, for increasing fermentative production of L-amino acid, especially L-lysine.

PI DE 10132176 A1 20020321 (200241)* 17 C12N015-31
WO 2002022670 A1 20020321 (200241) EN C07K014-34 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
AU 2001087682 A 20020326 (200251) C07K014-34
US 2002107377 A1 20020808 (200254) C12Q001-68

IN BREHME, J; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W; RIEPING, M

L115 ANSWER 75 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New ccpA2 gene from coryneform bacteria, useful, when suppressed, for increasing fermentative production of L-amino acids, particularly lysine.

PI DE 10123071 A1 20020307 (200240)* 16 C07H021-00
WO 2002018429 A1 20020307 (200240) EN C07K014-34 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
US 2002068336 A1 20020606 (200241) C12P013-08
AU 2001091658 A 20020313 (200249) C07K014-34
EP 1313759 A1 20030528 (200336) EN C07K014-34
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

US 6689586 B2 20040210 (200413) C12P021-06
IN FARWICK, M; HERMANN, T; KREUTZER, C; MARX, A; MOECKEL, B; PFEFFERLE, W;
GARWICK, M

L115 ANSWER 76 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fermentative production of D-pantothenic acid (I), useful e.g. in animal nutrition, from coryneform bacteria with reduced activity of the **pyruvate oxidase** gene.

PI DE 10117085 A1 20020411 (200240)* 27 C12N015-52
WO 2002029020 A1 20020411 (200240) EN C12N009-02 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001091825 A 20020415 (200254) C12N009-02
 US 2002150999 A1 20021017 (200270) C12P013-04
 EP 1320586 A1 20030625 (200341) EN C12N009-02
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN DUSCH, N; HERRMANN, T; THIERBACH, G; HERMANN, T; THOMAS, H

L115 ANSWER 77 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New dep34 gene from coryneform bacteria, useful, when inactivated, for
 increasing fermentative production of L-amino acid, especially L-lysine.
 PI DE 10112429 A1 20020321 (200236)* 17 C12N001-21
 WO 2002022843 A2 20020321 (200236) EN C12P013-00 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2002019032 A 20020326 (200251) C12P013-00
 US 2002106757 A1 20020808 (200254) C12P013-08
 EP 1315815 A2 20030604 (200337) EN C12N015-31
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN BATHE, B; FARWICK, M; HERMANN, T; HUTHMACHER, K; PFEFFERLE, W

L115 ANSWER 78 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New menE gene of coryneform bacteria, useful when suppressed for
 increasing fermentative production of L-amino acids, encodes an
 O-succinylbenzoic acid CoA-ligase.
 PI DE 10112106 A1 20020328 (200237)* 16 C12N009-00
 WO 2002024937 A1 20020328 (200237) EN C12P013-08 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001079811 A 20020402 (200252) C12P013-08
 US 2002102663 A1 20020801 (200253) C12P013-04
 EP 1319084 A1 20030618 (200340) EN C12P013-08
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 CN 1461346 A 20031210 (200415) C12P013-08
 IN FARWICK, M; HUTHMACHER, K; MARX, A; PFEFFERLE, W

L115 ANSWER 79 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Fermentative production of L-amino acids, especially lysine or valine, by
 fermenting Coryneform bacteria in which the nadA and/or nadC gene is
 weakened.
 PI DE 10110344 A1 20020516 (200271)* 23 C12N015-11
 AU 2002021715 A 20020521 (200271) C12P013-08
 WO 2002038788 A2 20020516 (200271) EN C12P013-08 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 US 2002168732 A1 20021114 (200277) C12P013-08
 EP 1414985 A2 20040506 (200430) EN C12P013-08
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
 IN HERMANN, T; MOECKEL, B; PFEFFERLE, W

L115 ANSWER 80 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New oxyR gene from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acids, particularly lysine.
 PI DE 10110053 A1 20020307 (200240)* 18 C12N015-11
 US 2002064839 A1 20020530 (200240) C12P013-08
 WO 2002018431 A1 20020307 (200240) EN C07K014-34 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001089706 A 20020313 (200249) C07K014-34
 EP 1313758 A1 20030528 (200336) EN C07K014-34
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN BATHE, B; FARWICK, M; HERMANN, T; MARX, A; SCHISCHKA, N

L115 ANSWER 81 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New ccpA1 gene from coryneform bacteria, useful, when suppressed, for increasing fermentative production of L-amino acids, particularly lysine.
 PI DE 10110052 A1 20020307 (200240)* 16 C12N015-11
 WO 2002018419 A2 20020307 (200240) EN C07K014-00 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2002012114 A 20020313 (200249) C07K014-00
 US 2002151001 A1 20021017 (200270) C12P013-04
 EP 1311685 A2 20030521 (200334) EN C12N015-31
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN KREUTZER, C; MOECKEL, B

L115 ANSWER 82 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New pepC gene of Coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, encodes an aminopeptidase I.
 PI DE 10108828 A1 20020328 (200237)* 16 C12N015-52
 WO 2002024928 A1 20020328 (200237) EN C12N015-57 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001089765 A 20020402 (200252) C12N015-57
 US 2002098554 A1 20020725 (200254) C12P013-04
 IN BATHE, B; FARWICK, M; HUTHMACHER, K; PFEFFERLE, W; RIEPING, M

L115 ANSWER 83 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New dps gene of coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes a DNA-protection protein.
 PI DE 10046623 A1 20020328 (200237)* 11 C12N001-21
 WO 2002024737 A1 20020328 (200237) EN C07K014-34 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2002012232 A 20020402 (200252) C07K014-34
 US 2002106760 A1 20020808 (200254) C12P013-08
 EP 1319019 A1 20030618 (200340) EN C07K014-34
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN BATHE, B; FARWICK, M; KREUTZER, C; MARX, A; PFEFFERLE, W; RIEPING, M

L115 ANSWER 84 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New cstA gene from coryneform bacteria, useful, when overexpressed, for
 increasing fermentative production of L-amino acids e.g. lysine and as
 hybridization probe.
 PI DE 10042051 A1 20020307 (200234)* 15 C07H021-00
 WO 2002018597 A1 20020307 (200234) EN C12N015-31 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001082022 A 20020313 (200249) C12N015-31
 US 2002137912 A1 20020926 (200265) C12P013-08
 EP 1311683 A1 20030521 (200334) EN C12N015-31
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 IN FARWICK, M; HERMANN, T; MARX, A; MOECKEL, B; PFEFFERLE, W; MOECKEL, B

L115 ANSWER 85 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI **Corynebacterium**-originated **glucose-6-phosphate dehydrogenase**, modified to improve
 productivity of an L-amino acid, e.g., L-lysine, by a microorganism;
 vector-mediated gene transfer and expression in host cell for
 recombinant protein production
 AU YOKOI H; ANDO S; OCHIAI K; YONETANI Y; HASHIMOTO S
 AN 2002-09438 BIOTECHDS
 PI WO 2001098472 27 Dec 2001

L115 ANSWER 86 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Preparing L-amino acids by fermenting coryneform bacteria transformed
 with the **glucose-6-phosphate-dehydrogenase** gene is particularly useful to produce L-lysine and
 L-threonine;
 which are useful in animal nutrition, human medicine, and
 pharmaceutical industry
 AU Burke K; Sahm H; Eggeling L; Moritz B; Dunican L K; McCormack A;
 Stapelton C; Moekel B; Thierbach G
 AN 2002-02626 BIOTECHDS
 PI WO 2001070995 27 Sep 2001

L115 ANSWER 87 OF 100 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI New polynucleotide sequences derived from **Corynebacterium**
 glutamicum, useful as primers for preparing DNA of genes that display an
 effect corresponding to the opcA gene by the polymerase chain reaction,
 or as hybridization probes;
 L-lysine production, DNA probe and DNA primer
 AU Dunican L K; McCormack A; Stapelton C; Burke K; Moritz B; Eggeling L;
 Sahm H; Moeckel B; Weissenborn A
 AN 2001-08007 BIOTECHDS
 PI WO 2001004322 18 Jan 2001

L115 ANSWER 88 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 56
 TI The glbO gene of **Corynebacterium** glutamicum encoding Hb-like
 protein and its use in increasing yields of lysine in fermentation
 SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2
IN Moeckel, Bettina; Marx, Achim; Pfefferle, Walter
AN 2001:904501 HCAPLUS
DN 136:36482

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001094569	A2	20011213	WO 2001-EP4792	20010427 <--
	WO 2001094569	A3	20020321		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 2002081673	A1	20020627	US 2001-813932	20010322 <--
	EP 1287143	A2	20030305	EP 2001-940376	20010427 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

L115 ANSWER 89 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 57
TI Process for the fermentative preparation of L-amino acids in coryneform bacteria with amplification of the gnd gene

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

IN Dunica, L. K.; McCormack, Ashling; Stapelton, Cliona; Burke, Kevin; Moeckel, Bettina

AN 2001:713591 HCAPLUS

DN 135:268190

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001071012	A1	20010927	WO 2000-EP6299	20000705 <--
	W:	AU, BR, CA, CN, HU, ID, JP, KR, MX, PL, RU, SK, UA, ZA			
	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
	EP 1179076	A1	20020213	EP 2000-951336	20000705 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	BR 2000010817	A	20020305	BR 2000-10817	20000705 <--

L115 ANSWER 90 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 58

TI Process for the fermentative preparation of L-amino acids with amplification of the tkt gene

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

IN Dunican, L. K.; McCormack, Ashling; Stapelton, Cliona; Burke, Kevin; Moeckel, Bettina; Thierbach, Georg

AN 2001:693552 HCAPLUS

DN 135:252777

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001068894	A1	20010920	WO 2000-EP6305	20000705 <--
	W:	AU, BR, CA, CN, HU, ID, JP, KR, MX, PL, RU, SK, UA, ZA			
	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
	BR 2000010713	A	20020213	BR 2000-10713	20000705 <--
	EP 1179084	A1	20020213	EP 2000-945875	20000705 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			

L115 ANSWER 91 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 59

TI **Corynebacterium** glutamicum genes encoding metabolic pathway

proteins
SO PCT Int. Appl., 316 pp.
CODEN: PIXXD2
IN Pompejus, Markus; Kroeger, Burkhard; Schroeder, Hartwig; Zelder, Oskar;
Haberhauer, Gregor; Kim, Jun-Won; Lee, Heung-Shick; Hwang, Byung-Joon
AN 2001:676795 HCAPLUS
DN 135:222397

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001066573	A2	20010913	WO 2000-IB2035	20001222 <--
	WO 2001066573	A3	20020510		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
EP	1261718	A2	20021204	EP 2000-987602	20001222 <--
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
BR	2000017148	A	20030311	BR 2000-17148	20001222 <--
JP	2003525623	T2	20030902	JP 2001-565737	20001222 <--

L115 ANSWER 92 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 60
TI Increasing yields of amino acids from microbial hosts by increasing intracellular levels of NADPH

SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
IN O'Donohue, Michael R.; Hanke, Paul D.
AN 2001:78542 HCAPLUS
DN 134:146503

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007626	A2	20010201	WO 2000-US19914	20000721 <--
	WO 2001007626	A3	20010531		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
BR	2000012712	A	20020409	BR 2000-12712	20000721 <--
EP	1208205	A2	20020529	EP 2000-950529	20000721 <--
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL		
US	6465238	B1	20021015	US 2000-621451	20000721 <--
JP	2003521888	T2	20030722	JP 2001-512892	20000721 <--
ZA	2002001268	A	20030303	ZA 2002-1268	20020214 <--
US	2003017557	A1	20030123	US 2002-223355	20020820 <--
US	6680190	B2	20040120		

L115 ANSWER 93 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 61
TI Sequences of Coryneform bacteria tal gene and uses thereof in fermentative preparation of L-amino acids

SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
IN Dunican, L. K.; McCormack, Ashling; Stapelton, Cliona; Burke, Kevin; Mockel, Bettina

AN 2001:50828 HCAPLUS
DN 134:111274

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001004325	A1	20010118	WO 2000-EP6304	20000705 <--
W: AU, BR, CA, CN, HU, ID, JP, KR, MX, PL, RU, SK, UA, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1109915	A1	20010627	EP 2000-956165	20000705 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000006915	A	20010731	BR 2000-6915	20000705 <--
AU 768599	B2	20031218	AU 2000-68220	20000705 <--
ZA 2001001703	A	20020528	ZA 2001-1703	20010228 <--
ZA 2001001678	A	20020815	ZA 2001-1678	20010228 <--

L115 ANSWER 94 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Genetically modified Coryneform bacteria with overexpressed pgsA2 gene and uses thereof in fermentative preparation of L-amino acids

SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2

IN Nampoothiri, Madhavan; Moeckel, Bettina; Pfefferle, Walter; Eggeling, Lothar; Sahm, Hermann

AN 2001:816923 HCAPLUS
DN 135:353875

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083766	A1	20011108	WO 2001-EP4704	20010426 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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DE 10021829	A1	20011108	DE 2000-10021829	20000504
EP 1278865	A1	20030129	EP 2001-940367	20010426 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

L115 ANSWER 95 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Genetically modified Coryneform bacteria with overexpressed cdsA gene and uses thereof in fermentative preparation of L-amino acids

SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2

IN Nampoothiri, Madhavan; Moeckel, Bettina; Pfefferle, Walter; Eggeling, Lothar; Sahm, Hermann

AN 2001:816922 HCAPLUS
DN 135:353874

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083765	A2	20011108	WO 2001-EP3704	20010331 <--
WO 2001083765	A3	20020404		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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DE 10021828 A1 20011108 DE 2000-10021828 20000504
 EP 1278861 A2 20030129 EP 2001-933786 20010331 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L115 ANSWER 96 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Genetically modified Coryneform bacteria with overexpressed fadD15 gene
 and uses thereof in fermentative preparation of L-amino acids

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

IN Nampoothiri, Madhavan; Moeckel, Bettina; Pfefferle, Walter; Eggeling,
 Lothar; Sahm, Hermann

AN 2001:816916 HCAPLUS

DN 135:353870

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001083759	A1	20011108	WO 2001-EP4706	20010426 <--
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 CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 10021831	A1	20011108	DE 2000-10021831	20000504
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EP 1278857	A1	20030129	EP 2001-940368	20010426 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L115 ANSWER 97 OF 100 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Manufacture of five-carbon sugars and sugar alcohols using microorganisms
 deficient in or transformed with genes involved in pentose-phosphate
 pathway

SO PCT Int. Appl., 205 pp.

CODEN: PIXXD2

IN Miasnikov, Andrei; Ojamo, Heikki; Povelainen, Mira; Gros, Hakan; Toivari,
 Mervi; Richard, Peter; Ruohonen, Laura; Koivuranta, Kari; Londesborough,
 John; Aristidou, Aristos; Penttilae, Merja; Plazanet-Menut, Claire;
 Deutscher, Josef

AN 2001:545704 HCAPLUS

DN 135:136473

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001053306	A2	20010726	WO 2001-FI51	20010122 <--
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WO 2001053306	A3	20020418		
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W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
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 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR,
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 RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2001031784	A5	20010731	AU 2001-31784	20010122 <--
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BR 2001007918	A	20021105	BR 2001-7918	20010122 <--
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EP 1254244	A2	20021106	EP 2001-903815	20010122 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003520583	T2	20030708	JP 2001-553780	20010122 <--
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US 2003068791	A1	20030410	US 2001-908744	20010720 <--
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L115 ANSWER 98 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New mutant coryneform bacterium, useful for production of amino acids, especially lysine, has increased activity of acyl-CoA synthase.
 PI DE 10021831 A1 20011108 (200204)* 14 C07H021-00
 WO 2001083759 A1 20011108 (200204) EN C12N015-52 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
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 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
 SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001073971 A 20011112 (200222) C12N015-52
 US 2002042107 A1 20020411 (200227) C12Q001-68
 EP 1278857 A1 20030129 (200310) EN C12N015-52
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 KR 2002097248 A 20021231 (200330) C12N001-21
 IN EGGELING, L; MADHAVAN, N; MOECKEL, B; PFEFFERLE, W; SAHM, H; MOCKEL, B;
 NAMPOOTHIRI, K M; NAMPOOTHIRI, M

L115 ANSWER 99 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New mutant coryneform bacterium, useful for production of amino acids, especially lysine, has increased activity of CDP-diacylglycerol-3-phosphate 3-phosphatidyltransferase.
 PI DE 10021829 A1 20011108 (200204)* 14 C07H021-00
 WO 2001083766 A1 20011108 (200204) EN C12N015-54 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
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 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
 SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001073970 A 20011112 (200222) C12N015-54
 US 2002155555 A1 20021024 (200273) C12P013-08
 EP 1278865 A1 20030129 (200310) EN C12N015-54
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 KR 2002097244 A 20021231 (200330) C12N001-21
 IN EGGELING, L; MADHAVAN, N; MOECKEL, B; PFEFFERLE, W; SAHM, H; MOCKEL, B;
 NAMPOOTHIRI, K M; NAMPOOTHIRI, M

L115 ANSWER 100 OF 100 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI New mutant coryneform bacterium, useful for production of amino acids, especially lysine, has increased activity of phosphatidate-cytidylyl transferase.
 PI DE 10021828 A1 20011108 (200203)* 16 C07H021-00
 WO 2001083765 A2 20011108 (200203) EN C12N015-54 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
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 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
 SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 AU 2001060174 A 20011112 (200222) C12N015-54
 EP 1278861 A2 20030129 (200310) EN C12N015-54
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 KR 2002097245 A 20021231 (200330) C12N001-21
 US 2004092710 A1 20040513 (200432) C07K001-00
 IN EGGELING, L; MOECKEL, B; NAMPOOTHIRI, M; PFEFFERLE, W; SAHM, H; MOCKEL, B;
 NAMPOOTHIRI, K M

=> save temp l115 zwf/a
ANSWER SET L115 HAS BEEN SAVED AS 'ZWF/A'

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COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

166.63

378.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

0.00

-3.47

STN INTERNATIONAL LOGOFF AT 15:42:46 ON 07 JUN 2004